

# SOAP

*and Chemical Specialties*

*In this edition...*

## 1955 BLUE BOOK

and Catalog Edition

.....

### Annual Buyers' Guide

*for Manufacturers and Jobbers  
of Soaps, Detergents, Chemical Specialties,  
Janitor Supplies and Equipment.*

# UNGERER

Importer  
Manufacturer



## FOR 60 YEARS

*a fine tradition  
in the creation  
of basic materials  
for PERFUMES and  
PERFUME SPECIALTIES*

Essential Oils  
Aromatic Chemicals  
Terpeneless Oils  
Oleoresins  
True Fruit and Imitation Flavors



# Ungerer & Co.



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plant and laboratories  
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CHICAGO • BOSTON • PHILADELPHIA • ST. LOUIS • LOS ANGELES • ATLANTA



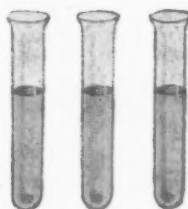


Mr. fatty acid says...

"for  clear liquid  soaps

that really  lather and

give uniform color



batch after batch... use

**ADM fatty acids**"

FATTY ACID TYPE AND GRADE	METALLIC SOAPS	LIQUID SOAPS	WAXES AND POLISHES	INSECTICIDES AND DISINFECTANTS	LUBRICATING GREASES	COSMETICS	PHARMACEUTICAL
COCONUT Double-Distilled.....		X		X		X	
LINSEED							
Regular.....	X	X		X			
SM-500.....	X	X		X			
SM-600.....	X	X		X			
Essential Unsaturated Free Fatty Acids.....							X
SOYA							
Regular.....	X	X		X			
RO-4.....	X	X		X			
RO-10.....	X	X	X	X	X		
RO-11S.....	X	X		X			
MIXED VEGETABLE							
RO-8.....	X	X	X	X	X		
CORN-SOYA							
Double-Distilled.....		X	X	X	X		
CORN							
Double-Distilled.....		X	X	X	X		
COTTONSEED							
Double-Distilled.....	X		X	X	X		

**Archer-  
Daniels-  
Midland  
company**



Uniformity of quality is a special problem in buying soap-making fatty acids. For even slight variations in raw materials and processing can impair the purity of acids... their uniformity, color and saponification characteristics.

As scores of users testify, you can be doubly sure of *uniform* quality year after year when you specify ADM Fatty Acids. The reasons include strict quality control inspection at every production stage.

ADM Fatty Acids make liquid soaps with superb clarity and minimum content of unsaponifiables at every price level. For checking samples and technical data mail the coupon below.

For clearer liquid soap

**ADM  
fatty acids**

Mail this coupon today.

**ARCHER-DANIELS-MIDLAND COMPANY**  
700 Investors Building, Minneapolis 2, Minnesota

..... Please send samples of the following ADM Fatty Acid for my evaluation \_\_\_\_\_

..... Please send Technical Bulletin. \_\_\_\_\_

Name \_\_\_\_\_

Title \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

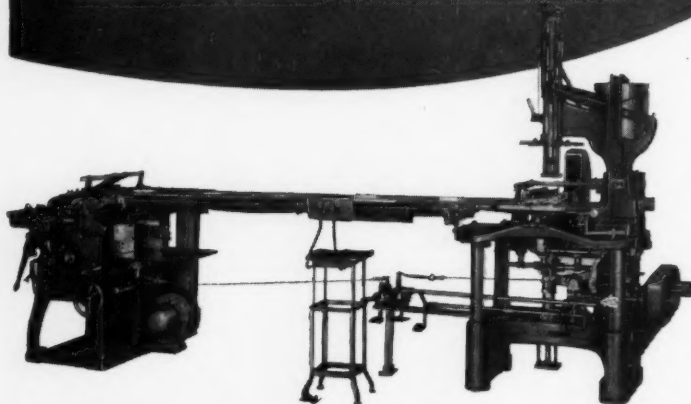
City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

## Improved Dexterity in MECHANIZED PACKAGING...



### MODEL "EG" UNIVERSAL FILLER

Newest design. Fully streamlined. Fills by gross weight or by packing or by measurement. Handles powders, granulars or pastes. Various types of containers.  $\frac{1}{4}$  oz. up to 5 lbs. or more. Production 15 to 30 per minute.

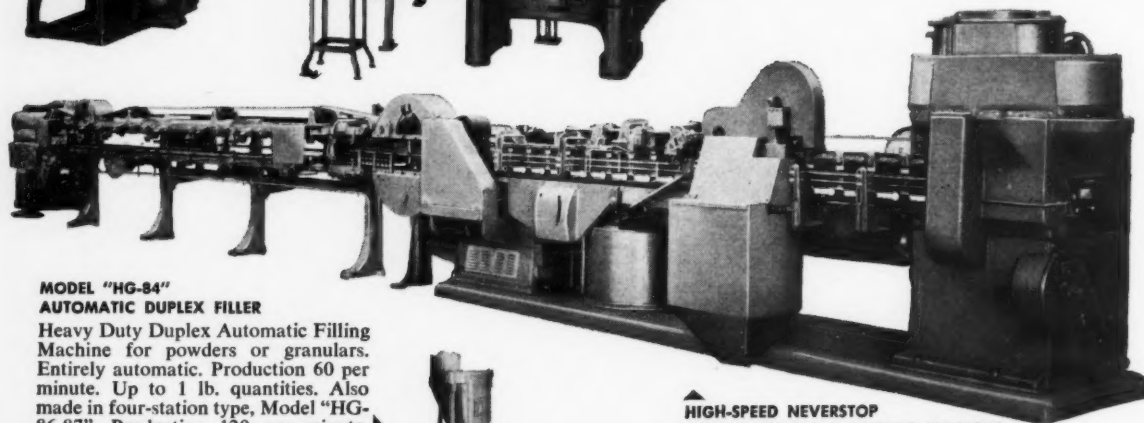


### MODEL "HG-84" AUTOMATIC DUPLEX FILLER

Heavy Duty Duplex Automatic Filling Machine for powders or granulars. Entirely automatic. Production 60 per minute. Up to 1 lb. quantities. Also made in four-station type, Model "HG-86-87". Production 120 per minute.

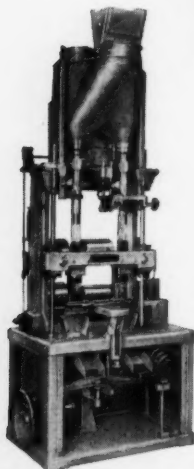
### STOKESFEED PAPER BOX MACHINE

A complete paper box gluing, feeding and wrapping unit. Made in two sizes—Model "B" and Model "H". Completes up to 40 boxes per minute. Only one operator required. MODEL "B"—maximum: 20" x 15" x 4"; minimum: 6" x 4" x  $\frac{1}{2}$ ". Model "H"—maximum: 15" x 10" x 2 $\frac{3}{4}$ "; minimum: 4" x 1 $\frac{3}{4}$ " x  $\frac{1}{2}$ ".



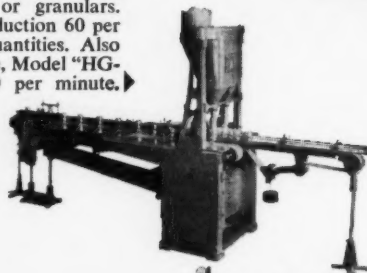
### HIGH-SPEED NEVERSTOP CARTON FILLING & SEALING MACHINE

For free-flowing products. Feeds, fills and seals cartons, both top and bottom, in one continuous operation. Cartons 5 $\frac{1}{8}$ " x 3 $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " to 8 $\frac{1}{2}$ " x 6" x 2 $\frac{1}{8}$ ". 60 to 200 or more per minute. One operator.



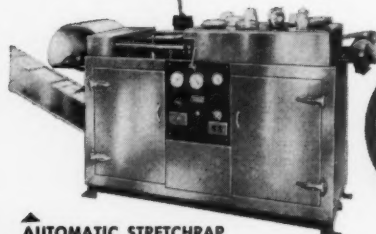
### STOKESWRAP AUTOMATIC PACKAGING MACHINE

Equipped with auger feed. Forms, fills and heat-seals the package, taking printed or unprinted web from roll stock. Volume to 56 cubic inches or 1 lb. 50 to 120 packages per minute.



### AUTOMATIC STRETCHRAP PACKAGING MACHINE

For wrapping odd shapes of articles or pieces, smoked meats, sausage, toys, etc. with heat sealing "Pliofilm". One operator required. Production 12 to 15 per minute.



...ENGINEERED BY  
**STOKES &  
SMITH CO.**



**STOKES & SMITH CO.**

4915 SUMMERDALE AVENUE, PHILADELPHIA 24, PA.

Pacific Coast: SIMPLEX PACKAGING MACHINERY, INC., 534 - 23rd AVE., OAKLAND 6, CALIF.



SUBSIDIARY OF FOOD MACHINERY AND CHEMICAL CORPORATION TRADE MARK

R

1955

# BLUE BOOK

and Catalog Edition of

## SOAP & CHEMICAL SPECIALTIES

(Formerly Soap & Sanitary Chemicals)



AN ANNUAL BUYERS GUIDE,  
DIRECTORY AND REFERENCE  
VOLUME FOR MANUFACTURERS,  
CONVERTERS AND JOBBERS OF  
SOAPS, DETERGENTS, INSECTI-  
CIDES, DISINFECTANTS, POL-  
ISHES, CLEANERS, CHEMICAL SPE-  
CIALTIES, JANITOR SUPPLIES  
AND EQUIPMENT.

*Twenty-Eighth Edition*

ISSUED ANNUALLY BY

*MacNair-Dorland Company*

254 West 31st Street

New York 1, N. Y.



# ONYX SURFACE ACTIVE AGENTS FOR SUPERIOR PRODUCTS

FUNCTION	ONYX PRODUCT	CHEMICAL COMPOSITION	CHARACTERISTICS	SUGGESTED APPLICATIONS
<b>Algaecide</b>	<b>ONYXIDE</b>	Alkenyl (C <sub>16</sub> -C <sub>20</sub> ) dimethyl ethyl ammonium bromide	Cationic. Tan paste. 75% active in isopropyl alcohol or propylene glycol. Soluble in water and lower alcohols. Incompatible with anionics. Non-toxic and non-irritating in use dilutions.	Control of algae and slime in swimming pools, cooling water towers, air conditioning systems, paper mills, etc.
<b>Detergent</b>	<b>NEUTRONYX 600</b>	Alkyl phenol polyglycol ether	Non-ionic. 100% active, clear amber liquid. Miscible with water in all proportions. Soluble in alcohol and organic solvents.	Household and industrial cleaning compounds. Metal cleaning and degreasing. Detergent sanitizers in combination with quaternary ammonium compounds. Time dispersant. Dispersing and emulsifying agent for insecticidal and herbicidal sprays. Wetting agent.
<b>Detergent</b>	<b>ONYX-OL 336</b> (See below)			
<b>Detergent</b>	<b>MAPROFIX TLS-50</b>	Triethanolamine lauryl sulphate	Anionic. Liquid, 44% active. Cloud point, 0°C. Good foaming.	Liquid household detergent ingredient. Liquid shampoos. Industrial cleaners.
<b>Detergent</b>	<b>MAPROFIX POWDER LK</b>	Sodium lauryl sulphate	Anionic. Powder, 92% active. Good foaming agent. Also available in refined grade and USP quality. Low salt content.	Shampoos, shaving creams, etc. Scouring powder foaming agent. Dentifrice foaming agent. Industrial and household cleaning. Rug and upholstery cleaning. Good wetting properties.
<b>Emulsifying Agent</b>	<b>NEUTRONYX 834</b>	Polyethylene glycol (300) oleic acid ester	Non-ionic. Liquid, 100% active. Oil and solvent soluble.	Dry cleaning solutions. Metal cleaning and degreasing. Auxiliary wax emulsifier.
<b>Emulsifying Agent</b>	<b>NEUTRONYX 600</b> (See above)			
<b>Foaming Agent, Stabilizer</b>	<b>ONYX-OL 336</b>	Lauric acid alkalamine condensate	Non-ionic. Liquid, 97% active. Water soluble. Good foam building and stabilizing in presence of anionics such as alkyl aryl sulphonates.	Shampoo and bubble-bath formulations. Liquid household detergents for washing dishes, walls, etc. Ore flotation. Provides dense foam and adds viscosity to formulations.

FUNCTION	ONYX PRODUCT	CHEMICAL COMPOSITION	CHARACTERISTICS	SUGGESTED APPLICATIONS
<b>Foaming Agent, Stabilizer</b>	<b>ONYX-OL 368</b>	Lauric acid alkylamine condensate	Non-ionic. Powder, 97% active. Water insoluble. Designed for building and stabilizing foam when used in combination with anionics such as sulfated fatty alcohols.	Powdered detergents and shampoo formulations.
<b>Fungicide</b>	<b>ISOTHAN Q-15</b>	Lauryl isoquinolinium bromide	Cationic. Liquid, 20% active in water and isopropyl alcohol. Miscible with water in all proportions. Non-toxic and non-irritating in use dilutions.	Agricultural fungicide. Dandruff control formulations. Preparations for control of athlete's foot.
<b>Germicide</b>	<b>BTC 50%</b>	Alkyl ( $C_8H_{17}$ to $C_{18}H_{37}$ ) dimethyl benzyl ammonium chloride	Cationic. Colorless to light yellow liquid. 50% active in aqueous solution. Miscible in water, soluble in lower alcohols and many organic solvents. Non-toxic and non-irritating in use dilutions.	General disinfectant and deodorant. Disinfection of farm, dairy and food processing equipment. Sanitization of eating and drinking utensils.
<b>Germicide</b>	<b>TETROSAN 3,4D</b>	Alkyl dimethyl 3,4 dichlorobenzyl ammonium chloride	Cationic. Colorless to light yellow liquid. 60% active in aqueous solution. Miscible with water. Soluble in lower alcohols and many organic solvents. High phenol co-efficients. Non-toxic and non-irritating in use dilutions.	Disinfectant, deodorant, preventive antiseptic in the veterinary and livestock fields. Pharmaceutical formulations for topical application.
<b>Thickening Agent</b>	<b>ONYX-OL 336</b> (See above)			
<b>Wetting Agent</b>	<b>NEUTRONYX 600</b> (See above)			
<b>Wetting Agent</b>	<b>MAPROFIX POWDER LK</b> (See above)			

Whatever your needs in surface active agents, ONYX either has or will formulate especially for you, a specialty that will fill that need. The products listed above are but a very few developed by ONYX to meet the greatest demands, and are available in commercial and research quantities.

We will gladly send complete data on these and other surface agents—cationic, anionic and non-ionic—upon request. Our laboratories are also prepared to consult with you on any special problem you may have.

# ONYX

## OIL & CHEMICAL COMPANY

### INDUSTRIAL DIVISION

186 WARREN ST., JERSEY CITY 2, N. J.

CHICAGO • BOSTON • CHARLOTTE • ATLANTA

For Export: ONYX International, Jersey City 2, N. J.

West Coast Representative: E. S. Browning Co., San Francisco, Los Angeles

*If your product can be sprayed...*

## **CONTINENTAL HAS AN AEROSOL CAN TAILOR-MADE FOR YOU**



**DOME TOP** — Domes attached and equipped with standard 1" curled opening for all popular valves. Regular (12 oz.) or Midget (6 oz.).



**CONCAVE TOP**—Tops furnished loose and perforated with hole-punch for specified aerosol valves. Regular (12 oz.).



**DOME TOP** — Domes furnished loose and perforated with hole-punch for specified aerosol valves. Regular (12 oz.) or Midget (6 oz.).

More than 60 sprayable non-food products are now sold in Continental's three styles of aerosol cans. One of these containers will fit the exact needs of your product too. As part of Continental's Tailor-Made Package Service, we provide on-the-dot deliveries of all the cans you can use. Individualized engineering and master lithography are available...and so are contacts with valve suppliers and commercial fillers. It'll be a pleasure to advise you in any phase of your packaging operations. Why not call Continental at your convenience?



**CONTINENTAL © CAN COMPANY**

Eastern Div.: 100 E. 42nd St., New York 17

Central Div.: 135 So. La Salle St., Chicago 3

Pacific Div.: Russ Building, San Francisco 4



# SHULTON

...the world's

largest

producer

of

Heliotropine

... is also producing other fine chemicals  
by new techniques, including:

- Eugenol USP
- Benzyl Alcohol NF
- Iso Eugenol
- Benzyl Benzoate USP
- Rhodinol Shulton

... and from Shulton research, these completely new products  
for use in the aromatics and flavoring industries:

Vanitrope (propenyl guaethol)  
Geranic Ether • Floralizer No. 12  
Heliotropine Liquid



Samples and price schedules  
available on request.

**SHULTON, Inc.**

FINE CHEMICALS DIVISION • 630 FIFTH AVENUE  
NEW YORK 20, N. Y.

# FLORASYNTH SPECIALS

## ODOROMES for Industrial Uses...

For: Adhesives, Disinfectants, Inks—Printing and Lithographing, Insecticides, Lacquers, Paints, Petroleum by-products, Sprays, Varnishes and Waxes.

OIL BOUQUET A.D.H. No. 200 (A)  
ALMOND BOUQUET No. 250  
CEDAROM No. 175  
EUGENOL TECHNICAL (I)  
FLORATYL BOUQUET No. 1009 (I)  
OIL BOUQUET G. No. 1954 (A)  
OIL BOUQUET G.R. No. 27 (PE)  
OIL BOUQUET J.W. No. 2404 (W)  
LAVENDER BOUQUET No. 350  
OIL BOUQUET M.S.O. No. 88  
NUTRALCO No. 350 (IN)  
OIL BOUQUET O.B. No. 1714 (I)  
OIL BOUQUET P. No. 1954 (S)  
OIL BOUQUET P.C. No. 3127 (S)  
OIL BOUQUET P.D. No. 250 (P)  
OIL BOUQUET R.C. No. 604 (PE)  
ROSE GERANIUM No. 193  
OIL BOUQUET SASS. No. 1954 (A)  
OIL BOUQUET S.T. No. 275 (P)  
OIL BOUQUET W.A.S. No. 300 (W)  
OIL BOUQUET W.P. No. 400 (W)  
OIL BOUQUET W.P. No. 400 (W)  
A—Adhesives D—Disinfectants I—Inks IN—Insecti-  
cides P—Paints PE—Petroleum S—Sprays V—Varn-  
ishes W—Waxes

## SHAMPOO ODORS

OIL BOUQUET H.O. No. 8267 Water Soluble  
OIL BOUQUET APPLE BLOSSOM No. 8240  
OIL BOUQUET ALMOND No. 8262 Water Soluble  
OIL CLOVER No. 888

## AEROSOL BOUQUETS

MINT BOUQUET No. 3121  
APPLE BLOSSOM No. 3122  
OIL SWEET PEA No. 3123  
OIL WISTARIA No. 3124  
OIL GARDENIA No. 3125  
OIL BOUQUET E.T. No. 3126  
OIL BOUQUET P.C. No. 3127  
OIL BOUQUET H.L. No. 3128  
OIL BOUQUET K.L. No. 3129  
OIL BOUQUET H.C.S. No. 3130

## PARA BLOCKS

OIL APPLE BLOSSOM No. 4314  
OIL LILAC No. 4315  
OIL NARCISSUS No. 4316  
OIL ROSE No. 4317  
PINE BOUQUET No. 4318

## FOR LIQUID SOAPS

OIL BOUQUET E.C. No. 618  
OIL BOUQUET E.T. No. 618  
OIL HONEYSUCKLE No. 61  
OIL NARCISSUS No. 614

## IMITATION CITRONELLA

Florasynth Research Laboratories are always at your service for the development of more practical and quality-improving materials for your production requirements.



*Florasynth* LABORATORIES, INC.  
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DALLAS • CINCINNATI 2 • DETROIT 2 • MEMPHIS 1 • NEW ORLEANS 12 • ST. LOUIS 2 • SAN BERNARDINO • SAN FRANCISCO  
Florasynth Labs. - (Canada Ltd.) - Montreal - Toronto - Vancouver - Winnipeg - Productos Y Laboratorios Florasynth, S. A. Mexico 11, D. F.

# Handy return card brings prompt data on Wyandotte chemicals



Acids (muriatic)  
Benzene  
Bleaching agents  
Carboxymethylcellulose (CMC)  
Caustic soda:  
    Flake, powder, crystal,  
    50% or 74% liquid  
Chalk (calcium carbonate)  
Chlorine  
Detergents, synthetic  
    (basic materials)  
Emulsifying agents  
Soda ash:  
    Light and dense grades  
Sodium bicarbonate  
Solvents (chlorinated)  
Water softeners  
Wetting agents

Supplying basic chemicals to soap, detergent, and chemical-specialty formulators has been Wyandotte's business for over half a century. As a result, many formulators look to Wyandotte for chemicals of uniform quality and purity . . . for service that's dependable and prompt.

You, too, will find Wyandotte a reliable source for formulation-tested raw-material chemicals. If your product needs fall under one or several of the headings listed on this page — we'll be pleased to send pertinent information on our chemicals, immediately. We are also at your service if you need help with your processes.

Just fill out the reverse side of postage-free card, clip and mail today!



FIRST CLASS  
PERMIT No. 1  
(Sec. 34.9, P.L.&R.)  
Wyandotte, Michigan

## BUSINESS REPLY CARD

No postage stamp necessary if mailed in the United States

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Michigan Alkali Division  
Wyandotte, Michigan

Attention: Advertising Dept.



## DEPENDABLE SOURCE FOR RAW-MATERIAL CHEMICALS



### HALANE

— a new, dry chlorine bleach material (dichlorodimethylhydantoin) that combines unusual safety, effective bleaching, and excellent stability. When properly formulated in a highly desirable physical form, Halane makes possible safe, powder-type home-laundry bleaches. Easily handled and packaged for wide sales appeal.

### KREELON\* CD

— an alkylarylsulfonate-type detergent which combines the advantages of a detergent and a detergency promoter in one homogeneous, rapidly soluble product . . . the first of its kind on the market. Available in both flake and powder form.

### CARBOSE\*

— a specialized grade of NaCMC which greatly improves detergency in syndets and soaps.

### PLURONICS\*

— the unique series of 100%-active nonionic surfactants — offer flexibility; an over-all balance of desirable properties; and excellent stability in acids, alkalies, and electrolytic solutions. Pluronics can be prepared with molecular weights from 1,800 to 8,000, or any hydrophilic-hydrophobic balance within the established range. Choose from Pluronics L44, L61, L62, L64 (liquids); P75 (paste); and F68 — the first 100%-active nonionic commercially available in flake, powder, or solid-cast form!

### CAUSTIC SODA

— Wyandotte Caustic is exceptionally pure and chemically uniform. Available as a liquid (50% and 74% conc.) and in numerous anhydrous forms. Anhydrous caustic is available from distributor stocks maintained in 69 principal cities.

### SODA ASH

— Purity, quality, and uniformity of Wyandotte Soda Ash are maintained by strict control testing throughout manufacture . . . every grade of Wyandotte Soda Ash is guaranteed 58% sodium oxide or better. Available in bag or bulk . . . distributor stocks maintained in 68 principal cities.

\*REG. U.S. PAT. OFF.



# Wyandotte

## CHEMICALS

WYANDOTTE CHEMICALS CORPORATION, WYANDOTTE, MICHIGAN  
Offices in Principal Cities

### WYANDOTTE CHEMICALS CORPORATION • Wyandotte, Mich.

Gentlemen:

Please send data on \_\_\_\_\_, with respect  
(name of product)  
to the following process (or problem): \_\_\_\_\_

☐ Send a sample for evaluation. ☐ Send price list.

☐ Have a Wyandotte representative call on me.

I am interested in ☐ carload, ☐ less-than-carload quantities.

Name \_\_\_\_\_ Title \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

For more information on these or other  
Wyandotte products, fill in business reply  
card, giving as much detail as possible.



Cut out and mail  
this card today!

# Buyers' Guide Section

***L**ISTED on the following pages in alphabetical order are leading sources of supply for raw materials, equipment, containers, bulk and private brand finished products, and accessories bought by manufacturers, converters, repackers and distributors of soaps, detergents, cleaners, insecticides, disinfectants, floor waxes, polishes, aerosols and allied products, including janitor supplies.*

*The synthetic detergent listing has been completely revised to give complete information on sources of basic synthetic detergent chemicals and intermediates as well as of finished products. New listings have been added throughout and older ones revised and brought up to date.*

*Every attempt has been made to keep the listings complete and accurate. If your firm is not listed and sells raw materials, equipment, bulk products, accessories, etc., to the soap and specialty chemical industries, let us know so that we may include your name in next year's edition.*

*The BLUE BOOK is not a general chemical directory, but is specifically edited to be of the greatest aid to manufacturers, converters, and jobbers of soaps, detergents, chemical specialties, janitor supplies and equipment. It is designed for firms selling **TO THE TRADE** and is not intended as a reference for retail distributors of finished products.*

*The editors are indebted to readers and suppliers who have made numerous suggestions of additions to listings to improve the usefulness of the directory. If you are looking for a manufacturer or supplier of a raw material, piece of equipment, bulk or private brand product, not listed, drop a line to the SOAP BLUE BOOK, and the editors will try to locate a supplier.*

*Your old BLUE BOOK is now obsolete. It should be discarded and this new 1955 edition substituted in its place.*

•

**1955 BLUE BOOK Edition**

**of**

**SOAP & CHEMICAL SPECIALTIES**

*Right Combination*  
to reduce your costs  
and improve the quality  
of your products...



## Use ULTRA'S ALKYL ARYL SULPHONATES

FOR EXCELLENT WETTING...GOOD DETERGENCY  
...AND FINE FOAM STABILITY

### SULFRAMIN\* AB-40 FLAKES

Excellent foam stability, especially at high pH. Very low in dust and odor. Outstanding wetting.

### SULFRAMIN\* E LIQUID

Modified alkyl aryl liquid. 25% active. Unusual hard-water resistance and low end-point performance.

### SULFRAMIN\* AB-CONCENTRATE FLAKES

80-85% active organic material. For blending where high active is required in finished product. Density, 0.33-0.38.

### SULFRAMIN\* L

This new, chemically different synthetic, in gel form, offers unusual foam stability and excellent detergency.

### SULFRAMIN\* AB-40 POWDER

Excellent detergency. Light in color. Less than 1% moisture. Screened, not ground, low in fines.

### SULFRAMIN\* KE LIQUID

Clear amber liquid. 25% active. 3% sulfate. Excellent for compounding.

### SULFRAMIN\* AB-CONCENTRATE POWDER

Density, 0.5-0.55. Easy to perfume due to low odor. Low in dust content. Excellent money value.

### SULFRAMIN\* AB SLURRY

Alkanes sulfonated to meet your specifications under rigid control. Tank cars and tank trucks only.

### SULFRAMIN\* HD BEADS

An alkyl aryl sulfonate in spray dried form blended with complex phosphates and organic chemicals for HIGH DETERGENT VALUE.

**WRITE OR PHONE  
FOR DETAILS**



**ULTRA CHEMICAL WORKS, INC.**

HAWTHORNE, CALIF.

PATERSON, N. J.

JOLIET, ILL.

ONE OF THE BASIC MANUFACTURERS OF DETERGENTS IN AMERICA

\*T.M. Reg. U. S. Pat. Off.



**ABRASIVES AND FILLERS (Pumice, Silica, Feldspar, Bentonite, Clays, Marble Flour, etc.)**

Agri-Indus Mfg. Co., 923 E. Broad St., Columbus, O.  
American Colloid Co., Merchandise Mart Plaza, Chicago  
Archer-Daniels-Midland Co., Minneapolis, Minn.  
Baw Industries, P. O. Box 292, Rossville, Ill.  
California Industrial Minerals Co., Friant, Calif.  
Carolina Pyrophyllite Co., 10 E. 40th St., N. Y. 16  
Chas. B. Chrystal Co., 53 Park Pl., N. Y.  
Dicalite Div., 612 S. Flower St., Los Angeles, Cal.  
Filtrol Corp., 727 W. 7th St., Los Angeles, Calif.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Innis, Speiden & Co., 420 Lexington Ave., N. Y.  
Johns-Manville Corp., 22 E. 40th St., N. Y.  
Minerals & Chems. Corp. of America, Metuchen, N. J.  
Pacific Coast Pumice Co., Bishop, Calif.  
Jas. H. Rhodes & Co., 157 W. Hubbard St., Chicago  
Wm. R. Rogers, 72 Park St., Beverly, Mass.  
F. E. Schundler & Co., Inc., 524 Railroad St., Joliet, Ill.  
Southeastern Clay Co., Aiken, S. C.  
Tamm Industries, Inc., 228 N. La Salle St., Chicago  
Universal Marble Products, Thornwood, N. Y.  
United Clay Mines Corp., 101 Oakland St., Trenton, N.J.  
R. T. Vanderbilt Co., 230 Park Ave., N. Y.  
Whittaker Clark & Daniels, 260 W. B'way, N. Y.  
Witco Chemical Co., 122 E. 42 St., N. Y.

**ABSORBENTS (See Grease Absorbents).**

**ACCUMULATORS (Automatic Devices for bottle and can gathering.)**

Filpaco Industries, 2464 S. Michigan Ave., Chicago 16  
Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh 4  
Island Equip. Corp., 27-01 Bridge Plaza No., LIC, N.Y.  
Karl Kiefer Machine Co., 919 Martin St., Cincinnati  
M. R. M. Co., 191 Berry St., Bklyn.  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.  
U. S. Bottlers Machy Co., 4019 N. Rockwell St., Chicago

**ACIDS (Acetic, Muriatic, Nitric, Phosphoric, Sulfuric, Etc.)**

American Cyanamid Co. 30 Rockefeller Plaza, N. Y.  
Atlas Powder Co., Wilmington, Del.  
J. T. Baker Chemical Co., Phillipsburg, N. J.  
Blockson Chem. Co., Joliet, Ill.  
Carbide & Carbon Chemicals Co., 30 E. 42nd St., N. Y.  
Diamond Alkali Co., Union Commerce Bldg., Cleveland  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Harshaw Chem. Co., 1945 E. 97 St., Cleveland  
Heyden Chemical Corp., 342 Madison Ave., N. Y. 17  
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.  
Koppers Co., Koppers Bldg., Pittsburgh, Pa.  
Mallinckrodt Chemical Wks., St. Louis 7  
A. R. Mass Chem. Co., Div. of Victor Chem. Wks., 4570 Ardine St., South Gate, Calif.  
Merck & Co., Rahway, N. J.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
Niagara Alkali Co., 60 E. 42nd St., N. Y.  
Olin Mathieson Chem. Corp., Baltimore 3, Md.  
Oronite Chem. Co., 200 Bush St., San Francisco  
Penna. Salt Mfg. Co., Widener Bldg., Phila.  
Publicker Industries, 1429 Walnut St., Phila. 2  
Rohm & Haas Co., Inc., 222 W. Washington Sq., Phila.  
Shea Chem. Corp., 1201 St. Paul St., Baltimore  
Rosenthal Bercow Co., 25 E. 26th St., N. Y.  
Stauffer Chem. Co., 380 Madison Ave., N. Y.  
Tennessee Corp., 619 Grant Blvd., Atlanta, Ga.  
Tennessee Eastman Co., Kingsport, Tenn.  
Jos. Turner & Co., Ridgefield, N. J.  
Victor Chemical Works, 155 N. Wacker Dr., Chicago 6  
Virginia-Carolina Chem. Corp., Richmond, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
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Chas. Pfizer & Co., 630 Flushing Ave., Bklyn.  
Rosenthal Berrow Co., 25 E. 26 St., N. Y.  
Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17

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Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
Bingham Bros. Co., 406 Pearl St., N. Y. C.  
Carbide & Carbon Chemicals, 30 E. 42nd St., N. Y.  
Diamond Alkali Co., Cleveland 14, Ohio  
Dow Corning Corp., P. O. Box 592, Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Finetex, Inc., P. O. Box 414, Pompton Plains, N. J.  
General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
B. F. Goodrich Chemical Co., Cleveland 15  
National Starch Products, Inc., 270 Madison Ave., N. Y.  
Pennsylvania Industrial Chem. Corp., Clairton, Pa.  
Philadelphia Quartz, Co., Public Ledger Bldg., Phila. 6  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
A. E. Staley Mfg. Co., Decatur, Ill.  
Swift & Co., Chicago  
Union Bay State Chem. Co., 491 Main St., Cambridge, Mass.  
T. F. Washburn Co., 2244 Elston Ave., Chicago 14

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Bridgeport Brass Co., Bridgeport, Conn.  
Continental Can Co., 100 E. 42nd St., N. Y. 17  
Crown Can Co., Erie Ave. and H St., Philadelphia 34  
Sun Tube Corp., 181 Long Ave., Hillside, N. J.  
Victor Aerosol Container Corp., 193 Newel St., Bklyn.  
Wheaton Plastics Co., Mays Landing, N. J.

#### AEROSOL DIP TUBES

Anchor Plastics Co., 36-36 36th St., Long Island City 6  
H&R Industries, Nazareth, Pa.

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Fairfield Chem. Div., 420 Lexington Ave., N. Y. 17  
B. F. Goodrich Chem. Co., 2060 E. 9 St., Cleveland  
McLaughlin Gormley King Co., 1715 5th St., SE., Minneapolis  
S. B. Penick & Co., 50 Church St., N. Y.  
John Powell Div., 1 Park Ave., N. Y.  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Propel Chemicals, Inc., 415 Lexington Ave., N. Y.

#### AEROSOL FILLING EQUIPMENT

Aerated Container Corp., 39 La Salle St., Chicago 3  
Alpha Engineering & Machine Wks., Inc., 217 N. Des Plaines St., Chicago  
Bridgeport Brass Co., Bridgeport 2, Conn.  
Builders Sheet Metal Works, 108 Wooster St., N. Y. 12  
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Mojonnier Associates, Inc., 9151 Fullerton Ave., Franklin Park, Ill.  
M. R. M. Co., 191 Berry St. Bklyn., 11  
Nanuet Valve Co., Nanuet, N. Y. (Laboratory)  
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Aeropak, Inc., 3005 W. 47 St., Chicago  
Aerosol Corp. of the South, 203 Scott St., Memphis, Tenn.  
Aerosol Filling Div., Puritan Dist. Co., 160 Washington St., N. Boston  
Aerosol Service AG., Weillstrasse 12, Basel, Switzerland  
Aerosol-Service, GmbH, Blumen Strasse 53, Hamburg, Germany  
American Potash & Chem. Corp., 3100 E. 26th St., Los Angeles, Calif.  
Armstrong Laboratories, 41 LaGrange St., Boston  
G. Barr & Co., 3601 S. Racine Ave., Chicago  
Bridgeport Brass Co., Bridgeport 2, Conn.  
Chase Products Co., 1816 W. St. Charles Rd., Maywood, Ill.  
Chemi-Form Corp., 1631 S. Michigan Ave., Chicago 16, Ill.  
Connecticut Chemical Research Corp., Bridgeport 5, Conn.  
Continental Filling Corp., 123 N. Hazel St., Danville, Ill.  
Eveready Pressurized Products Co., 1022 Belt Line St., Cleveland 9, Ohio  
Fluid Chemical Co., 878 Mt. Prospect, Newark 4, N. J.

Hysan Products Co., 932 W. 38 Pl., Chicago 9, Illinois  
Lawson Chem. Prods. Co., 5634 Selmaraine Dr., Culver City, Calif.  
Lenk Co., P. O. Box 324, Franklin, Ky.  
McGuire & Co., 833 47th Ave., Oakland, Calif.  
Old Empire, Inc., Mt. Prospect & Verona Aves., Newark, N. J.  
Par Industries, Inc., 2193 E. 14th St., Los Angeles 21, Calif.  
Powr-Pak, Inc., 647 North Ave., Bridgeport, Conn.  
Private Brands, Inc., 300 S. 3 St., Kansas City, Kansas  
Products Manufacturing Co., 135 Stevens Ave., Little Falls, N. J.  
Regal Chem. Corp., 115 Dobbin St., B'klyn 22, N. Y.  
Ronor Corp., 1360 W. 9 St., Cleveland  
Gene Rose Co., 1637 S. Kilbourn Ave., Chicago 23  
Schaeffer Paint Co., 334 W. Marion St., Lancaster, Pa.  
Sprayon Products, Inc., 2075 East 65th St., Cleveland 3, Ohio  
Stalford Pressure-Pak Corp., 319 W. Pratt St., Baltimore  
Tru-Pine Co., 7638 Vincennes Ave., Chicago 20, Ill.  
Western Filling Corp., 4151 Bandini Blvd., Los Angeles 23

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Airkem, Inc., 241 E. 44th St., N. Y. 17  
Aeropak, Inc., 3005 W. 47 St., Chicago  
Aerosol Corp. of the South, 203 Scott St., Memphis, Tenn.  
Aerosol Filling Div., Puritan Dist. Co., 160 Washington St., N. Boston  
American Potash & Chem. Corp., 3100 E. 26th St., Los Angeles, Calif.  
A-M-R Chemical Co., 985 E. 35th St., Brooklyn 18  
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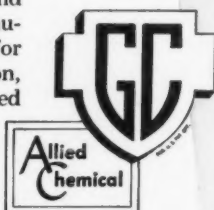
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 Columbia Chemical Co., 154 E. Erie St., Chicago 11, Ill.  
 Connecticut Chem. Research Corp., Bridgeport 5, Conn.  
 Davies Young Soap Co., Dayton, Ohio  
 Edco Corp., Elkton, Md.  
 Fuld Bros., 702 S. Wolfe St., Baltimore, Md.  
 General Chemical Div., Allied Chemical & Dye Corp., 40 Rector St., N. Y. 6  
 Gulf Oil Corp., Pittsburgh 30, Pa.  
 Hysan Prods. Co., 932 W. 38 Pl., Chicago 9, Ill.  
 Jasgo Chem. Co., 1128 St. Johns Pl., B'klyn, N. Y.  
 Lenk Co., P. O. Box 324, Franklin, Ky.  
 Powr-Pak, Inc., 647 North Ave., Bridgeport, Conn.  
 Regal Chemical Corp., 115 Dobbins St., B'klyn 22, N. Y.  
 Ronor Corp., 1360 W. 9th St., Cleveland, Ohio  
 Sparklet Devices, Inc., 272 Badger Ave., Newark 8, N. J.  
 Sprayon Products, Inc., 2075 E. 65th St., Cleveland  
 Tru-Pine Co., 7638 Vincennes Ave., Chicago 20, Ill.  
 Virginia Smelting Co., W. Norfolk, Va.  
 Uncle Sam Chem. Co., 575 W. 131 St., N. Y. 27  
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 Kinetic Chemicals Div., E. I. du Pont de Nemours & Co., Wilmington, Del.

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 American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
 American Potash & Chem. Corp., 3100 E. 26th St., Los Angeles  
 Atlas Powder Co., Wilmington, Dela.  
 Baird & McGuire, Inc., South St., Holbrook, Mass.  
 Berkshire Chemicals, 420 Lexington Ave., N. Y. 17  
 California Spray-Chemical Corp., Richmond, Calif.  
 Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
 Chipman Chemical Co., Bound Brook, N. J.  
 Commercial Solvents Corp., 260 Madison Ave., N. Y.  
 Diamond Alkali Co., Union Commerce Bldg., Cleveland 4  
 Douglas Chem. Co., 620 E. 16 Ave., No. Kansas City, Mo.  
 Dodwell & Co., 120 Wall St., N. Y. 5  
 Dow Chemical Co., Midland, Mich.  
 E. I. du Pont de Nemours & Co., Wilmington, Del.  
 Fairfield Chem. Div., Lexington Ave., N. Y. 17  
 Geigy Agricultural Chemicals, 89 Barclay St., N. Y.  
 General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
 James Good, Inc., 2107 Susquehanna Ave., Phila.  
 B. F. Goodrich Chem. Co., Cleveland 15  
 Griffin Chem. Co., 1000 16th St., San Francisco  
 Heckathorn & Co., Richmond, Calif.  
 Hercules Powder Co., 961 Market St., Wilmington, Del.  
 Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.  
 Kay-Fries Chemicals, 180 Madison Ave., N. Y. 16  
 Koppers Co., Chamber of Commerce Bldg., Pittsburgh  
 McLaughlin Gormley King Co., 1715 5th St., S. E., Minneapolis  
 Michigan Chem. Corp., St. Louis, Mich.  
 Monsanto Chem. Co., St. Louis 4.  
 Olin-Mathieson Chem. Corp., Baltimore 3  
 S. B. Penick & Co., 50 Church St., N. Y.  
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Rohm & Haas Co., 222 W. Washington Sq., Phila.  
Shell Chemical Corp., 50 W. 50 St., N. Y. 20  
Solvay Process Div., Allied Chem. & Dye Corp., 61  
Broadway, N. Y.  
Standard Oil Co., (Ind.), 910 S. Michigan Ave., Chicago  
Standard Oil Co. (Calif.), 225 Bush St., San Francisco  
Stauffer Chem. Co., 380 Madison Ave., N. Y.  
Swift & Co., Chicago 9  
Thompson-Hayward Chem. Co., 2915 Southwest Blvd.,  
Kansas City, Mo.  
Velsicol Corp., 330 E. Grand Ave., Chicago  
Virginia-Carolina Chemical Corp., Richmond, Va.  
Westvaco Chem. Div., Food Mach. & Chem. Corp., 161  
E. 42nd St., N. Y. 17  
Woburn Chemical Corp., Harrison, N. J.  
Wyandotte Chemicals Corp., Michigan Alkali Div.,  
Wyandotte, Mich.

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American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Antara Chemicals, Div. of General Aniline & Film Corp.,  
435 Hudson St., N. Y. 14  
Atlantic Refining Co., 260 South Broad St., Phila.  
Atlas Powder Co., Wilmington 99, Del.  
California Industrial Minerals Co., Friant, Calif.  
California Spray-Chemical Corp., Richmond, Calif.  
Carbide & Carbon Chemicals Co., 30 E. 42nd St., N. Y.  
Colloidal Products Corp., 2598 Taylor St., San Francisco  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
Derris, Inc., 120 Wall St., N. Y.  
Dicalite Div., 612 S. Flower St., Los Angeles, Calif.  
Eastern Magnesia Talc Co., Burlington, Vt.  
Emulsol Chemical Corp., 59 E. Madison St., Chicago  
Geigy Industrial Chemicals, 89 Barclay St., N. Y.  
General Chem. Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y. 6  
Glyco Products Co., 350 5th Ave., N. Y.  
Griffin Chem. Co., 1000 16th St., San Francisco  
Kay-Fries Chemicals, Inc., 180 Madison Ave., N. Y.  
Kearny Mfg. Co., Kearny, N. J.  
Kessler Chem. Co., 7272 State Rd., Phila.  
Minerals & Chems. Corp. of America, Metuchen, N. J.  
Miranol Chemical Co., 277 Coit St., Irvington, N. J.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
National Aniline Div., 40 Rector St., N. Y.  
Nopco Chemical Co., First & Essex Sts., Harrison, N. J.  
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey  
City 2, N. J.  
John Powell Div., 1 Park Ave., N. Y. 16  
Refined Prods. Corp., Lyndhurst, N. J.  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
R. T. Vanderbilt Co., 230 Park Ave., N. Y.

#### ALCOHOL (Ethyl and Denatured)

(see also Dealers)

Amsco Solvents & Chemicals Co., 4619 Reading Road,  
Cincinnati 29, Ohio  
Buffalo Solvents & Chemicals Corp., Box 73 Station B,  
Buffalo 7, N. Y.  
Carbide & Carbon Chemicals Co., 30 E. 42nd St., N. Y.  
Central Solvents & Chemicals Co., 2540 W. Flournoy  
St., Chicago 12, Ill.  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
Dixie Solvents & Chems. Co., Dixie Highway at Apple  
ton Lane, Louisville, Ky.  
Eastman Chemical Prods., Kingsport, Tenn.  
Enjay Co., 15 W. 51 St., N. Y. 19  
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave.,  
Indianapolis 22, Ind.  
Industrial Chem. Sales Div., West Va. Pulp & Paper Co.,  
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**Rosenthal Bercow Co.**, 23 E. 26th St., N. Y. 10  
Shell Chem. Corp., 50 W. 50 St., N. Y. 20  
Southern Solvents & Chemicals Corp., 1354 Jefferson Highway, New Orleans 18, La.  
Texas Solvents & Chemicals Co., 8501 Market St., Houston 15, Texas  
**Joseph Turner & Co.**, Ridgefield, N. J.  
U. S. Industrial Chemicals, Inc., 99 Park Ave., N. Y.  
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## ALCOHOL (Methyl or Wood) (see also Methanol)

(see also Dealers)

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Central Solvents & Chemicals Co., 2540 W. Flounoy St., Chicago 12, Ill.  
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Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis 22, Ind.  
Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.  
Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis 7, Mo.  
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Olin Mathieson Chem. Corp., Baltimore 3  
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**Douglas Chem Co.**, 620 E. 16 Ave., North Kansas City, Mo.  
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Southern Solvents & Chemicals Corp., 1352 Jefferson Highway, New Orleans 18  
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Shell Chemical Corp., 50 W. 50 St., N. Y. 20  
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**McLaughlin, Gormley, King Co.**, 1715 S. E. 5th St., Minneapolis, Minn.  
S. B. Penick & Co., 50 Church St., N. Y. 8  
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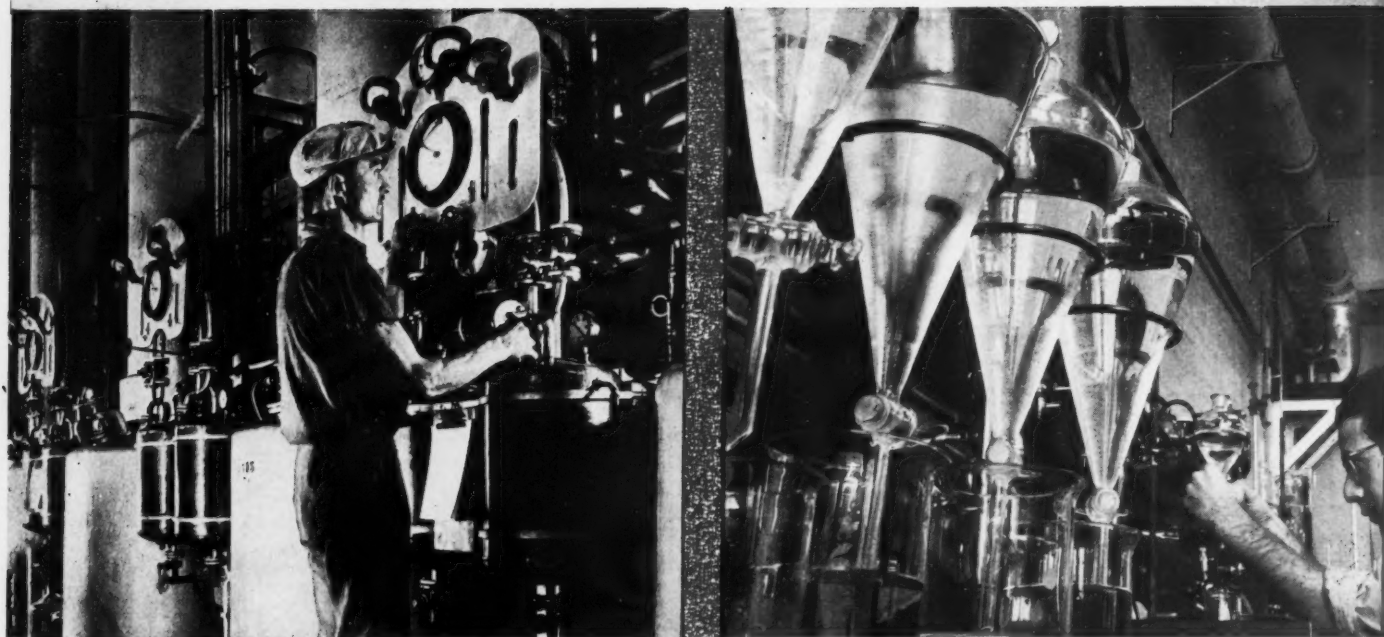
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(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
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Mallinckrodt Chemical Wks., St. Louis 7  
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Merck & Co., Rahway, N. J.  
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General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
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Rosenthal Bercow Co., 23 E. 26th St., N. Y. 10  
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Enjay Co., 15 W. 51 St., N. Y. 19  
Fine Organics, Inc., 211 E. 19th St., N. Y. 3  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
B. F. Goodrich Chemical Co., Cleveland 15  
Griffin Chem. Co., 1000 16th St., San Francisco  
Heyden Chemical Corp., 342 Madison Ave., N. Y. 17  
Jefferson Chem. Co., 260 Madison Ave., N. Y. 16  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh 19  
Merck & Co., Rahway, N. J.  
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
National Aniline Division, Allied Dye & Chem. Corp., 40 Rector St., N. Y.  
Olin Mathieson Chemical Corp., Baltimore 3  
Chas. Pfizer & Co., 630 Flushing Ave., Bklyn. 6  
Sharples Chemicals, Inc., Widener Bldg., Phila.  
Shell Chem. Corp., 50 W. 50th St., N. Y. 20  
Sindar Corp., 330 W. 42nd St., N. Y. 18  
Tennessee Eastman Co., Kingsport, Tenn.  
Van Dyk & Co., Bellevue 9, N. J.  
Versenes, Inc., Waverley St., Framingham, Mass.

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 van Ameringen-Haebler, Inc., 521 W. 57 St., N. Y. 19  
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 Bagpak Div., Int'l Paper Co., 220 E. 42nd St., N. Y.  
 Bemis Bro. Bag Co., 601 S. 4th St., St. Louis  
 Chase Bag Co., 309 W. Jackson Blvd., Chicago 6  
 Continental Can Co., 100 E. 42 St., N. Y.  
 Fulton Bag & Cotton Mills, Atlanta, Ga.  
 Gaylord Container Corp., 111 N. 4th St., St. Louis  
 Hammond Bag & Paper Co., Wellsburg, W. Va.  
 Kraft Bag Corp., 630—5th Ave., N. Y. 20  
 Nashua Gummed & Coated Paper Co., Nashua, N. H.  
 Pelamay Products, 112 4th Ave., N. Y.  
 St. Regis Paper Co., 230 Park Ave., N. Y.  
 Union Bag & Paper Co., 233 Broadway, N. Y.  
 Virginia-Carolina Chem. Corp., 401 E. Main St., Richmond, Va.

**BAGS (Multiwall)**

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 Bagpak Div., Int'l Paper Co., 220 E. 42nd St., N. Y.  
 Bemis Bro. Bag Co., 601 S. 4th St., St. Louis  
 Chase Bag Co., 509 W. Jackson Blvd., Chicago  
 Fulton Bag & Cotton Mills, Atlanta  
 Hammond Bag & Paper Co., Wellsburg, W. Va.  
 Hudson Pulp & Paper Co., 505 Park Ave., N. Y.  
 Kraft Bag Corp., 630—5th Ave., N. Y. 20  
 St. Regis Paper Co., 230 Park Ave., N. Y.  
 Union Bag & Paper Corp., 233 Broadway, N. Y.

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 Bemis Bros. Bag Co., St. Louis 2  
 Canton Containers, Inc., Canton, O.  
 Chase Bag Co., 309 W. Jackson Blvd., Chicago  
 Continental Can Co., 100 E. 42 St., N. Y.  
 Dow Chemical Co., Midland, Mich.  
 Equitable Paper Bag Co., 45-50 Van Dam St., Long Island City, N. Y.  
 Howard Plastics, Council Bluffs, Iowa  
 Milprint, Inc., Milwaukee, Wisc.  
 Oneida Paper Prods., Inc., 10 Clifton Blvd., Clifton, N. J.  
 Poly Plastic Prods., Inc., 230 State Highway 17, Lodi, N. J.

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 Berje Chemical Products Co., 359 West Broadway, N.Y.C.  
 Camilli, Albert & Laloue, Inc., 14 E. 48 St., N. Y. 17  
 Dodge & Olcott, Inc., 180 Varick St., N. Y.  
 P. R. Dreyer, Inc., 601 W. 26 St., N. Y.  
 Felton Chemical Co., 603 Johnson Ave., Brooklyn  
 Florasynth Laboratories, 900 Van Nest Ave., N. Y.  
 Fritzsche Brothers, Inc., 76 Ninth Ave., N. Y.  
 Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.  
 Gunning & Gunning, Inc., 601 W. 26th St., N. Y. 1  
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 Lautier Fils, Inc., 321 Fifth Ave., N. Y. 16  
 Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y.  
 A. Maschmeijer, Jr., Div., 630 5th Ave., N. Y.  
 Neumann Buslee & Wolfe, Inc., 5800 Northwest Highway, Chicago  
 Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.  
 Orbis Products Corp., 601 W. 26 St., N. Y.  
 S. B. Penick & Co., 50 Church St., N. Y.  
 Polak & Schwarz, Inc., 667 Washington St., N. Y. 14  
 Prentiss Drug & Chemical Co., 110 William St., N. Y.  
 Reynaud, Ltd., 355 W. 52nd St., N. Y. 19  
 Rosenthal Berrow Co., 23 E. 26th St., N. Y.  
 Frank B. Ross Co., 6-10 Ash St., Jersey City, N. J.  
 Roubechez, Inc., 8 E. 12th St., N. Y.  
 Schimmel & Co., 601 W. 26th St., N. Y.  
 Synflour Scientific Lab., Inc., Monticello, N. Y.  
 Tombarel Products Corp., 12 E. 22nd St., N. Y.  
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 National Steel Container Corp., 6700 S. LeClaire Ave., Chicago  
 Rheem Manufacturing Co., 7600 S. Kedzie Ave., Chicago, 29  
 Seymour & Peck Co., Blue Island, Ill.

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 Eastern Can Co., Keap St. & Kent Ave., Bklyn.  
 Inland Steel-Container Co., 6532 S. Menard St., Chicago  
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 National Steel Container Co., 6700 S. LeClaire Ave., Chicago  
 Pressed Steel Tank Co., Milwaukee, Wis.  
 Republic Steel Package Co., 7930 Jones Rd., Cleveland  
 Rheem Mfg. Co., 7600 S. Kedzie Ave., Chicago  
 St. Louis Steel Package Co., St. Louis  
 U. S. Steel Prods. Co., 30 Rockefeller Plaza, N. Y.  
 Vulcan Stamping & Mfg. Co., Bellwood, Ill.  
 Vulcan Steel Container Co., 3315 N. 35th Ave., Birmingham, Ala.  
 Wheeling Corrugating Co., Wheeling, W. Va.

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 Johnson Co., Inc., T., 1046 W. 38th St., Chicago  
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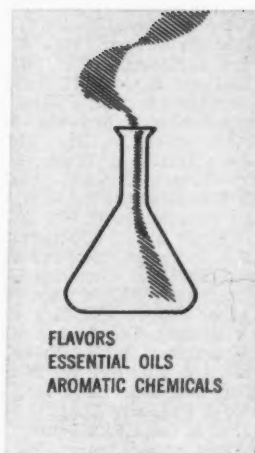
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Rosenthal Berrow Co., 23 E. 26th St., N. Y. 10  
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Virginia-Carolina Chem. Corp., Richmond, Va.  
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Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
Olin Mathieson Chemical Corp., Baltimore 3  
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Pittsburgh Coke & Chem. Co., 2000 Grant Bldg., Pittsburgh  
John Powell Div., 1 Park Ave., N. Y. 16  
Rosenthal Berrow Co., 23 E. 26th St., N. Y. 10  
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BICARBONATE OF SODA (See Sodium Bicarbonate)

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General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
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Merck & Co., Rahway, N. J.  
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Natural Prods. Refining Co., Jersey City, N. J.  
Chas. Page & Co., 50 E. 42nd St., N. Y. 17  
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E. I. du Pont de Nemours & Co., Wilmington, Del.  
Heyden Chemical Corp., 342 Madison Ave., N. Y. C.  
Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.  
Mallinckrodt Chem. Co., St. Louis 7  
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Niagara Alkali Co., 60 E. 42nd St., N. Y.  
Olin Mathieson Chem. Corp., Baltimore 3  
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Rohm & Haas Co., 222 W. Washington Sq., Phila.  
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Stauffer Chem. Co., 380 Madison Ave., N. Y.  
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J. M. Huber Corp., 100 Park Ave., N. Y. 17  
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Innis, Speiden & Co., 420 Lexington Ave., N. Y.  
Minerals & Chems. Corp. of America, Metuchen, N. J.  
Tamms Industries, Inc., 228 N. LaSalle St., Chicago  
Welch, Holme & Clark Co., 439 West St., N. Y. 14  
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.  
Witco Chemical Co., 122 E. 42 St., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div.,  
Wyandotte, Mich.

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Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Monsanto Chemical Co., St. Louis 4  
Niagara Alkali Co., 60 E. 42nd St., N. Y.  
Olin-Mathieson Chem. Corp., Baltimore  
Penna. Salt Mfg. Co., Widener Bldg., Phila.  
Rosenthal Berrow Co., 23 E. 26th St., N. Y. 10  
Stauffer Chem. Co., 380 Madison Ave., N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
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**BLOCK HOLDERS (see Holders, Deodorizing Block)**

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**BLOWERS, FOR POWDERS (see Dusters, for Insecticide Powder)**

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Bilco Laboratories, 1553 63rd St., Brooklyn 19  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
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Eagle Soap Corp., Huntington, Ind.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
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Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
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Peck's Products Co., 610 E. Clarence Ave., St. Louis 15  
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Rumford Co., Rumford 16, R. I.  
Science Industries, 1509 Broadway, St. Louis  
S. & S. Soap Co., 815 E. 135 St., N. Y. 54  
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Owens Illinois Glass Co., Toledo, O.  
Wheaton Glass Co., Millville, N. J.


**BOTTLES, ALUMINUM**

American Aluminum Co., 378 Jelliff Ave., Newark, N. J.  
Basic Material Supply Co., 27 William St., N. Y. 5

**BOTTLES, PLASTIC** (Rigid and Squeezable)

American Agite Corp., Bedford, O.  
Bradley Container Corp., Maynard, Mass.  
Continental Can Co., 100 E. 42 St., N. Y.  
Imco Container Corp., 75th & Cleveland, Kansas City, Mo.  
Plax Corp., P. O. Box 1019, Hartford 1, Conn.

**BOX LINERS** (see Bag Liners)



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**BOXES (Corrugated and/or Fibre)**

Consolidated Paper Co., Monroe, Mich.  
 Container Corp. of America, 38 S. Dearborn St., Chicago  
 Federal Fibre Corp., 3704 10th St., L. I. C. 1  
 Robert Gair Co., 155 E. 44th St., N. Y.  
 Gardner Board & Carton Co., Middletown, O.  
 Gaylord Container Corp., 111 N. 4 St., St. Louis  
 Hinde & Dauch Paper Co., 222 Decatur St., Sandusky, O.  
 Owens-Illinois Glass Co., Toledo, O.  
 W. C. Ritchie & Co., 8880 Baltimore Ave., Chicago  
 Universal Folding Box Co., Monroe & 13th Sts., Hoboken, N. J.

**BOXES (Fancy Paper)**

F.N. Burt Co., 500 Seneca St., Buffalo, N. Y.  
 C. J. Fox Co., 236 Abbron St., Providence, R. I.  
 Robert Gair Co., 155 E. 44th St., N. Y.  
 Gardner Board & Carton Co., Middletown, O.  
 R. E. Heywood, Inc., 26th St. & 9th Ave., N. Y.  
 R. J. Kittredge Co., 812 W. Superior St., Chicago  
 Pictorial Package Co., Aurora, Ill.  
 W. C. Ritchie & Co., 8880 Baltimore Ave., Chicago  
 Robert Paper Box Co., Montville, Conn.  
 U. S. Printing & Lithographing Co., Norwood, Cincinnati  
 Universal Folding Box Co., Monroe & 13th St., Hoboken, N. J.  
 Carl Voss Corp., Hoboken, N. J.

**BOXES (Fancy Wooden)**

American Crayon Co., Sandusky, O.  
 National Box & Lumber Co., Newark 5, N. J.  
 Pilliod Cabinet Co., Swanton, O.

**BROKERS (Chemicals)**

American-British Chemical Supplies, 180 Madison Ave., N. Y. 16  
 Arnold, Hoffman & Co., Providence, R. I.  
 S. H. Bell Co., 1407 Gulf Bldg., Pittsburgh  
 John H. Calo Co., 19 Rector St., N. Y. 6  
 John A. Chew, Inc., 60 E. 42nd St., N. Y.  
 Simon Cytron Trading Co., 50 Broad St., N. Y.  
 Dickerson Co., Drexel Bldg., Phila.  
 Globe Chem. Co., Murray Rd., Cincinnati  
 Griffin Chem. Co., 1000 16th St., San Francisco  
 Otto A. C. Hagen Co., Public Ledger Bldg., Phila.  
 Heckathorn & Co., Richmond, Calif.  
 Chas. L. Huisking & Co., 155 Varick St., N. Y.  
 C. Lievense, 11 Broadway, N. Y. 4  
 P. J. Lo Bue Co., 277 Park Ave., N. Y.  
 Leo Pasternak, Inc., 110 William St., N. Y.  
 Bill Plowfield, 4 S. 15th St., Philadelphia 45  
 Revere Oil & Chemical Co., 23 E. 26 St., N. Y. 10  
 Riches-Nelson, Inc., 342 Madison Ave., N. Y.  
 G. S. Robins & Co., 126 Chouteau Ave., St. Louis 2  
 Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
 Schmitz-Schoenewald-Turner Co., 20 Vesey St., N. Y. 7  
 Siegel Chemical Co., 1 Hanson Pl., Bklyn.  
 George Uhe, Inc., 76 9th Ave., N. Y.  
 Welch, Holme & Clark Co., 439 West St., N. Y. 14  
 G. A. Wharry & Co., 125 Broad St., N. Y. 4

**BROKERS (Oils and Fats)**

Irving R. Boody Co., 120 Wall St., N. Y.  
 John H. Calo Co., 19 Rector St., N. Y. 6  
 Simon Cytron Trading Co., 50 Broad St., N. Y.  
 Davidson Commission Co., 327 S. La Salle St., Chicago  
 John W. Hall, 327 S. La Salle St., Chicago  
 Otto A. C. Hagen Co., Public Ledger Bldg., Phila.  
 Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave., N. Y.  
 Hentz & Co., 60 Beaver St., N. Y.  
 Chas. Hollingshead Co., Produce Exchange, N. Y.  
 E. G. James Co., 316 S. La Salle St., Chicago  
 C. Lievense, 11 Broadway, N. Y. 4  
 Marwood Co., 221 N. LaSalle, Chicago  
 Miller & Co., 2401 Chestnut St., Philadelphia  
 Rayner & Stonington, Inc., 79 Wall St., N. Y.  
 Revere Oil & Chemical Co., 23 E. 26 St., N. Y. 10  
 Roesling, Monroe & Co., 133 Front St., N. Y.  
 Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
 Sterne & Son Co., Board of Trade Bldg., Chicago  
 Weaver & Hugl, Inc., Produce Exchange Bldg., N. Y.

Welch, Holme & Clark Co., Inc., 439 West St., N. Y. 14  
 G. A. Wharry & Co., 125 Broad St., N. Y.  
 Wilson Brokerage, Inc., Produce Exchange, N. Y.

**BROOMS**

Alabama Broom & Mattress Co., Huntsville, Ala.  
 Brooklyn Fibre Broom Co., 47 Dinsmore Pl., Brooklyn 8  
 Eagle Woodenware Co., Hamilton, O.  
 Flour City Brush Co., 1501—4th Ave., S. Minneapolis  
 W. E. Kautenberg Co., Freeport, Ill.  
 Laitner Brush Co., 2000 Brooklyn Ave., Detroit  
 Ox Fibre Brush Co., Frederick, Md.  
 Vining Broom Co., 530 Columbus Ave., Springfield, O.

**BRUSHES**

American Standard Mfg. Co., 2509 S. Green St., Chicago  
 Brooklyn Fibre Broom Co., 14 Dinsmore Pl., Bklyn. 8  
 Empire Brushes, Inc., 200 William St., Port Chester, N. Y.  
 Flour City Brush Co., 1501—4th Ave., S., Minneapolis  
 J. I. Holcomb Co., Barth Ave., Indianapolis  
 Illinois Duster & Brush Co., 1944 Webster Ave., Chicago  
 W. E. Kautenberg Co., P. O. Box 255, Freeport, Ill.  
 Laitner Brush Co., 2000 Brooklyn Ave., Detroit  
 Moran Brush Mfg. Co., 30 Manila Ave., Hamden, Conn.  
 National Brush Co., Aurora, Ill.  
 Ox Fibre Brush Co., Frederick, Md.  
 Ransom Brush Co., 1051 W. Division St., Chicago  
 Zimmerman Brush Works, Inc., 900 W. Lake St., Chicago

**BULK SOAPS (see Chip Soap, Laundry Soap)****CAJUPUT OIL (see Essential Oils)****CALCIUM CARBONATE (Chalk, Marble Dust, etc.)**

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
 H. J. Baker & Bro., 271 Madison Ave., N. Y.  
 Binney & Smith Co., 380 Madison Ave., N. Y.  
 Charles B. Chrystal Co., 53 Park Pl., N. Y.  
 Diamond Alkali Co., Cleveland  
 Fezandie & Sperrle, 205 Fulton St., N. Y.  
 General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
 Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.  
 Innis, Speiden & Co., 420 Lexington Ave., N. Y.  
 Merck & Co., Rahway, N. J.  
 Rosenthal Bercow, 23 E. 26 St., N. Y. 10  
 L. A. Salomon & Bro., 216 Pearl St., N. Y.  
 Tammis Industries, Inc., 228 N. La Salle St., Chicago  
 Whittaker, Clark & Daniels, Inc., 260 W. Broadway, New York  
 Witco Chemical Co., 122 E. 42 St., N. Y.  
 Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

**CALCIUM CHLORIDE**

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. 20  
 Columbia-Southern Chem. Corp., Gateway, Pittsburgh  
 Dow Chemical Co., Midland, Mich.  
 E. I. du Pont de Nemours & Co., Wilmington  
 Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
 Jos. Turner & Co., Ridgefield, N. J.  
 Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

**CALCIUM HYPOCHLORITE**

Columbia-Southern Chem. Corp., Gateway, Pittsburgh  
 Cowles Chemical Co., 7016 Euclid Ave., Cleveland 3  
 General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
 Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
 Niagara Alkali Co., 60 E. 42nd St., N. Y.  
 Olin Mathieson Chem. Corp., Baltimore 3  
 Penn. Salt Mfg. Co., Widener Bldg., Phila.  
 Jos. Turner & Co., Ridgefield, N. J.  
 Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
 Virginia-Carolina Chem. Corp., Richmond, Va.



**CALCIUM STEARATE (see Stearates)****CAMPOR OIL (see Essential Oils)****CAN FILLING MACHINERY (see Filling Machinery, Cans)****CANDELILLA WAX (see Waxes)****CAN SPOUTS AND NOZZLES**

Am. Flange & Mfg. Co., 30 Rockefeller Plaza, N. Y.  
 Continental Can Co., 100 E. 42nd St., N. Y. 17  
 Crown Cork & Seal Co., Baltimore, Md.  
 Eastern Can Co., Keap St. & Kent Ave., Bklyn.  
 George D. Ellis & Son, 309 N. 3rd St., Philadelphia  
 Rieke Metal Products Corp., Auburn, Indiana  
 Seal Spout Corp., 363 Jelliff Ave., Newark 8, N. J.  
 (for cartons)  
 Standard Containers, Inc., Montclair, N. J.  
 Z & W Machine Prods., Inc., 5151 St. Clair Ave., Cleveland

**CANS (Fibre or Paper)**

American Can Co., 100 Park Ave., N. Y.  
 Canister Co., Phillipsburg, N. J.  
 Cin-Made Corp., 294 Eggleston Ave., Cincinnati  
 Cleveland Container Co., 6201 Barborton Ave., Cleveland  
 Continental Can Co., 100 E. 42nd St., N. Y.  
 Cross Paper Products Corp., 4377 Bronx Blvd., N. Y. 66  
 Harcord Mfg. Co., 125 Monitor St., Jersey City, N. J.  
 National Paper Can Co., Cudahy, Wis.  
 Niemand Bros., Inc., 37-01 35th Ave., L.I.C., N. Y.  
 Packard Container Corp., West New York, N. J.  
 R. C. Can Co., 9430 Page Blvd., St. Louis  
 W. C. Ritchie & Co., 8880 Baltimore Ave., Chicago  
 Sealright Co., 500 Fifth Ave., N. Y.  
 Sutherland Paper Co., Kalamazoo, Mich.

**CANS, GARBAGE (See Garbage Cans)****CANS (Sifter Top)**

American Can Co., 100 Park Ave., N. Y.  
 Burdick & Son, 72 Hamilton St., Albany, N. Y.  
 Canister Co., Phillipsburg, N. J.  
 Cleveland Container Co., 6201 Barborton Ave., Cleveland  
 Cin-Made Corp., 294 Eggleston Ave., Cincinnati  
 Continental Can Co., Inc., 100 E. 42nd St., N. Y.  
 Cross Paper Products Corp., 4377 Bronx Blvd., N. Y., 66  
 Crown Can Div., Erie Ave. & H. St., Phila.  
 Eastern Can Co., Keap St. & Kent Ave., Bklyn.  
 Harcord Mfg. Co., 125 Monitor St., Jersey City, N. J.  
 National Can Corp., 3217 W. 47 Pl., Chicago  
 Niemand Bros., Inc., 37-01 35th Ave., L.I.C., N. Y.  
 Packard Container Corp., 5811 Park Ave., West New York, N. J.  
 R. C. Can Co., 9430 Page Blvd., St. Louis  
 W. C. Ritchie & Co., 8880 Baltimore Ave., Chicago  
 Sefton Fibre Can Co., 3275 Big Bend Blvd., St. Louis  
 Standard Container, Inc., Bloomfield, N. J.  
 Sutherland Paper Co., Kalamazoo, Mich.

**CANS (Metal)**

American Can Co., 100 Park Ave., N. Y.  
 Burdick & Son, 72 Hamilton St., Albany 1, N. Y.  
 Central Can Co., 2415 W. 9th St., Chicago  
 J. L. Clark Mfg. Co., Rockford, Ill.  
 Continental Can Co., Inc., 100 E. 42nd St., N. Y.  
 Crown Can Div., Erie Ave. & H St., Philadelphia  
 Eastern Can Co., Keap St. & Kent Ave., Brooklyn 11  
 George D. Ellis & Sons, 309 N. 3rd St., Philadelphia  
 Fein's Tin Can Co., Bush Terminal, Brooklyn  
 National Can Corp., 3217 W. 47 Pl., Chicago 32  
 St. Louis Can Co., 904 S. 14th St., St. Louis  
 Standard Container, Inc., Bloomfield, N. J.  
 Stern Can Co., 71 Locust St., Boston 25  
 Vulcan Containers Ltd., Box 284, Toronto, Can.  
 Vulcan Tin Can Co., Bellwood, Ill.  
 Vulcan Steel Container Co., 3315 N. 35 Ave., Birmingham, Ala.

**CAPPING MACHINERY**

Consolidated Packaging Machinery Corp., 1400 West Ave., Buffalo  
 Consolidated Prods. Co., 59 Garden St., Hoboken, N. J. (used)  
 Crown Cork & Seal Co., Baltimore, Md.  
 Ertel Engineering Corp., West Front St., Kingston, N. Y.  
 Filpaco Industries, 2464 S. Michigan Ave., Chicago  
 R. G. Haskins Co., 2661 W. Harrison St., Chicago  
 Hornney & Co., 420 Lexington Ave., N. Y.  
 M. R. M. Co., 191 Berry St., Brooklyn  
 Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago  
 Pneumatic Scale Corp., North Quincy, Mass.  
 Resina Automatic Mchy. Co., 572 Smith St., Brooklyn  
 Triangle Package Machy. Co., 6633 W. Diversey Blvd., Chicago 51  
 Tite-Cap Machine Co., 57 Rose St., N. Y. 7  
 U. S. Bottlers Mchy. Co., 4015 N. Rockwell St., Chicago

**CAPS (Molded)**

Anchor Hocking Glass Corp., Lancaster, Ohio  
 Armstrong Cork Co., Lancaster, Pa.  
 General Plastics, Inc., N. Tonawanda, N. Y.  
 Owens-Illinois Glass Co., Toledo, Ohio  
 Resinox Corp., Terre Haute, Ind.  
 Standard Cap & Molding Co., 307 S. Eaton St., Baltimore

**CAPS (Metal)**

Aluminum Co. of America, Gulf Bldg., Pittsburgh  
 Anchor Hocking Glass Corp., Lancaster, Ohio  
 Armstrong Cork Co., Lancaster, Pa.  
 Ball Brothers Co., Muncie, Ind.  
 Cin-Made Corp., 295 Eggleston Ave., Cincinnati  
 Closure Service Co., Toledo, Ohio  
 Continental Can Co., 100 E. 42nd St., N. Y.  
 Crown Cork & Seal Co., Eastern Ave. & Kresson St., Baltimore  
 National Seal Co., 14th Ave., & 37th St., Brooklyn  
 Owens-Illinois Glass Co., Toledo, Ohio  
 Phoenix Metal Cap Co., 2444 W. 16th St., Chicago

**CARBOLIC ACID (see Phenol)****CARBON for bleaching oils, glycerine, etc., (see Decolorizing Carbons)****CARBON TETRACHLORIDE**

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
 Amso Solvents & Chemicals Co., 4619 Reading Road, Cincinnati 29, Ohio  
 J. T. Baker Chemical Co., Phillipsburg, N. J.  
 Buffalo Solvents & Chemicals Corp., Box 73 Station B, Buffalo 7, N. Y.  
 Carbide & Carbon Chemicals, 30 E. 42 St., N. Y. 17  
 Central Solvents & Chemicals Co., 2540 W. Flounoy St., Chicago 12, Ill.  
 Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14  
 Dixie Solvents & Chems. Co., Dixie Highway and Appleton Lane, Louisville, Ky.  
 Dow Chemical Co., Midland, Mich.  
 E. I. du Pont de Nemours & Co., Wilmington  
 Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis 22, Ind.  
 Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis 7, Mo.  
 Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland 11, Ohio  
 Pennsylvania Salt Mfg. Co., Widener Bldg., Phila.  
 Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
 Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
 Southern Solvents & Chemicals Corp., 1352 Jefferson Highway, New Orleans 18, La.  
 Stauffer Chem. Co., 380 Madison Ave., N. Y.  
 Jos. Turner & Co., Ridgefield, N. J.  
 Texas Solvents & Chemicals Co., 8501 Market St., Houston 15, Texas

#### CARBON TETRACHLORIDE (Contd.)

Virginia-Carolina Chem. Corp., Richmond, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Western Solvents & Chemicals Co., 6472 Selkirk Ave.,  
Detroit 11, Michigan  
Westvaco Chlor-Alkali Div, Food Mach. & Chem. Corp.  
161 E. 42nd St., N. Y.  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St.,  
Milwaukee 14, Wis.  
Wolverine Solvents & Chemical Co., 1500 Century Ave.,  
S.W., Grand Rapids 9, Mich.

#### CARBOXYMETHYCELLULOSE (CMC)

Antara Chemicals, Div. of General Aniline & Film Corp.,  
435 Hudson St., N. Y. 14  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Hercules Powder Co., 961 Market St., Wilmington, Del.  
Wyandotte Chemicals Corp., Michigan Alkali Div.,  
Wyandotte, Mich.

#### CARNAUBA WAX (see Waxes)

#### CARTON HANDLING SYSTEMS

J. L. Ferguson Co., Joliet, Ill.  
Hornney & Co., 420 Lexington Ave., N. Y.  
Island Equip. Corp., 27-01 Bridge Plaza N, LIC, N. Y.  
Pneumatic Scale Corp., Quincy, Mass.  
Standard-Knapp Div. of Emhart Mfg. Co., Portland,  
Conn.  
Stephans-Adamson Mfg. Co., Aurora, Ill.  
Weight Right Automatic Scale Co., 404 Grant Ave., Jo-  
liet, Ill.

#### CARTON LINING MACHINES (see Lining Machinery)

#### CARTON SEALING MACHINERY (see Sealing Machinery)

#### CARTON MACHINERY

Battle Creek Packaging Machines, Inc., Battle Creek,  
Mich.  
Chisholm-Ryder Co. of Pa., Hanover, Pa.  
Consolidated Prods. Co., 59 Garden St., Hoboken, N. J.  
(used)  
J. L. Ferguson Co., Joliet, Ill.  
Hornney & Co., 420 Lexington Ave., N. Y.  
R. A. Jones & Co., Cincinnati, Ohio  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
Chicago (Used)  
Pneumatic Scale Corp., North Quincy, Mass.  
F. B. Redington Co., 112 S. Sangamon St., Chicago  
Standard-Knapp Div. of Emhart Mfg. Co., Portland,  
Conn.  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.  
Triangle Package Machinery Co., 6633 W. Diversey  
Blvd., Chicago 51  
Weigh Right Automatic Scale Co., 404 Grant Ave., Jo-  
liet, Ill.

#### CARTONS (Display and Knock Down)

Consolidated Paper Co., Monroe, Mich.  
Robert Gair Co., 155 E. 44th St., N. Y.  
Gardner Board & Carton Co., Middletown, Ohio  
Gaylord Container Corp., 111 N. 4 St., St. Louis 2  
Hinde & Dauch, Sandusky, Ohio  
Owens-Illinois Glass Co., Toledo, O.  
W. C. Ritchie & Co., 8880 Baltimore Ave., Chicago  
Sutherland Paper Co., Kalamazoo, Mich.  
U. S. Printing & Lithographing Co., Cincinnati, Ohio

#### CASE LOADING MACHINERY

Battle Creek Packaging Machines, Inc, Battle Creek,  
Mich.  
Chisholm-Ryder Co., Hanover, Penna.  
J. L. Ferguson Co., Joliet, Ill.  
R. A. Jones & Co., Cincinnati

Hornney & Co., 420 Lexington Ave., N. Y.  
Karl Kiefer Mach. Co., 919 Martin St., Cincinnati  
Newman Tallow & Soap Machy. Co., 1051 W. 35 St.,  
Chicago (Used)  
Pneumatic Scale Corp., N. Quincy, Mass.  
Standard-Knapp Div. of Emhart Mfg. Co., Portland,  
Conn.  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.

#### CASE SEALING MACHINERY (see Sealing Machinery)

#### CASEIN

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. -  
Borden Co., 350 Madison Ave., N. Y.  
Wm. Diehl & Co., 330 W. 42nd St., N. Y. 18  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Hercules Powder Co., 961 Market St., Wilmington, Del.  
Land-O-Lakes Creameries, Minneapolis  
Swift & Co., Chicago 9  
Welch, Holme & Clark Co., 439 West St., N. Y.

#### CASES (Fibre) (see Boxes)

#### CASES (Corrugated) (see Boxes)

#### CASSIA OIL (see Essential Oils)

#### CASTILE SOAP, BAR

Armour & Co., 1355 W. 31st St., Chicago  
Brunswick Soap Co., 240 Plymouth St., Brooklyn  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
8  
Duveen Soap Corp., 36-14 35 St., Long Island City 6,  
N. Y.  
Haskins Bros. & Co., Omaha  
Hewitt Soap Co., Dayton, O.  
Kranich Soap Co., 54 Richards St., Brooklyn  
Lockwood-Brackets Co., Waltham Station, Boston  
Original Bradford Soap Wks., West Warwick, R. I.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Procter & Gamble Dist. Co., Cincinnati 1  
Sanitary Soap Co., 104 Railroad Ave., Paterson  
Schmidt Soap Products, 236 W. North Ave., Chicago  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Swift & Co., Chicago  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### CASTILE SOAP, LIQUID

Aid Soap Mfg. Co., Rochester, Pa.  
Ampon Corp., 4-88 41th Ave., Long Island City, N. Y.  
Analab Laboratories, 285 Franklin St., Boston 10  
Antiseptol Co., 5524 Northwest Highway, Chicago  
Armour Industrial Soap Dept., Chicago 9  
Baird & McQuire Inc., South St., Haverbrook, Mass.  
Baums Castorine Co., 200 Matthew St., Rome, N. Y.  
Chemical Service of Baltimore, Howard & West Sts.  
Baltimore 30  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Crystal Soap & Chem. Co., 6300 State Rd., Phila. 35  
Davies-Young Soap Co., Dayton, O.  
Duveen Soap Corp., 36-14 35 St., Long Island City, N. Y.  
Eagle Soap Corp., Huntington, Ind.  
Essential Chemicals Co., 2200 N. 32 St., Milwaukee 8  
Fuld Bros., 702 S. Wolfe St., Baltimore  
James Good Inc., 2107 Susquehanna Ave., Phila.  
Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue  
Island, Ill.  
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia  
Hewitt Soap Co., Dayton, O.  
Higley Chem. Co., Dubuque, Iowa  
R. M. Hollingshead Corp., Camden, N. J.  
Hunt Mfg. Co., Lisbon Rd., Cleveland  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Kranich Soap Co., 54 Richards St., Brooklyn  
Midland Laboratories, 210 Jones St., Dubuque, Iowa  
National Chem. Laboratories, 825 Lombard St., Phila. 47  
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark,  
N. J.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
John T. Stanley Co., 642 W. 30th St., N. Y.

## CASTILE SOAP, LIQUID (Contd.)

Swift & Co., Chicago  
Trio Chem. Wks., 341 Scholes St., Brooklyn  
J. A. Tumbler Labs., 423 Hanover St., Baltimore  
Science Industries, 1509 N. Broadway, St. Louis  
U. S. Sanitary Spec. Corp., 1001 S. California Blvd.,  
Chicago 12  
Uncle Sam Chem. Co., 575 W. 131st St., N. Y.  
Wolf Soap Co., 1116 Wyckoff Ave., Bklyn. 27  
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

## CASTOR OIL

(see also Dealers)

Archer-Daniels-Midland Co., Minneapolis  
Baker Castor Oil Co., 120 Broadway, N. Y.  
Brazilian Industrial Oils, Inc., 75 West St., N. Y. 6  
T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
George Degen & Co., 111 Broadway, N. Y.  
Otto A. C. Hagen Co., 929 Public Ledger Bldg., Phila.  
Michael Hassel, 75 West St., N. Y. 6 (importers)  
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave.,  
N. Y. 17  
Spencer Kellogg & Sons, 98 Delaware Ave., Buffalo, N.Y.  
Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Ang. 23  
J. H. Redding, Inc., 177 Battery Place, N. Y.  
Rosenthal Berrow Co., 23 E. 26th St., N. Y.  
Swift & Co., Chicago  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Arthur C. Trask Co., 4103 S. La Salle St., Chicago  
Welch, Holme & Clark Co., 439 West St., N. Y.

## CASTOR OIL, Dehydrated

Archer-Daniels-Midland Co., Minneapolis  
Baker Castor Oil Co., 120 Broadway, N. Y.  
T. G. Cooper & Co., Cedar & Venango Sts., Philadelphia  
Spencer Kellogg & Sons, 98 Delaware Ave., Buffalo, N.Y.  
Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Angeles  
23, Calif.  
Arthur C. Trask Co., 4103 S. La Salle St., Chicago  
Welch, Holme & Clark Co., 439 West St., N. Y.

## CASTOR OIL FATTY ACIDS

Archer-Daniels-Midland Co., Minneapolis, Minn.  
Baker Castor Oil Co., 120 Broadway, N. Y. 5  
Harchem Div., Wallace & Tiernan, Inc., P. O. Box 178,  
Newark N. J.  
Spencer Kellogg & Sons, 98 Delaware Ave., Buffalo, N.Y.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Jos Turner & Co., Ridgefield, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Woburn Chemical Corp., Harrison, N. J.

## CASTOR OIL, Hydrogenated

Archer-Daniels-Midland Co., Minneapolis, Minn.  
Baker Castor Oil Co., 120 Broadway, N. Y.  
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J. T. Baker Chemical Co., Phillipsburg, N. J.  
Davison Chemical Corp., Baltimore 3, Md.  
Filtrol Corp., 727 W. 7th St., Los Angeles 17, California  
General Chemical Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97 St., Cleveland 6  
Lucidol Div., Wallace & Tiernan, Inc., Buffalo 5, N. Y.  
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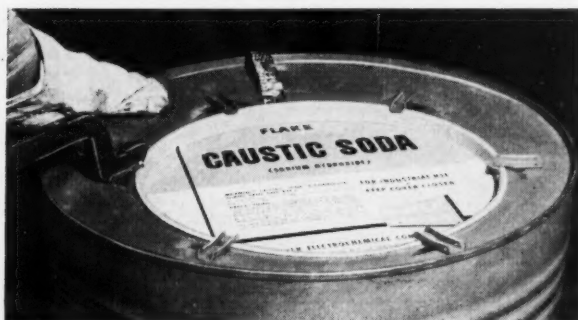
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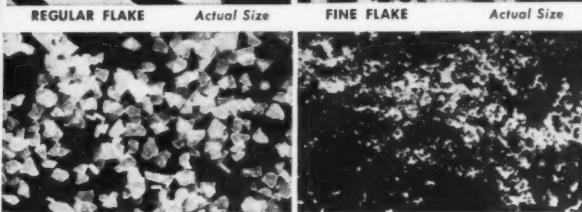
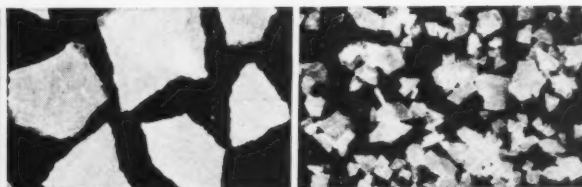
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When ordering, use these handy tables to figure your requirements

Dimensions and capacities of solid and flake caustic soda drums				
Form	Net Weight Pounds	Tare Weight Pounds	Dimensions Diameter X Height	Opening Diameter
Solid	700	21	21 1/4" x 32 1/2"	4 1/2"
Regular Flake	100 400	9 21	14" x 23 1/2"	10"
Fine Flake, Crystal and Powdered	450		21 1/4" x 31 3/4"	14" or Full Open Head

Approximate capacities of liquid caustic soda tank trucks and tank cars				
Capacity	50%		73%	
	Net Weight NaOH Lbs.	Gross Weight Solution Lbs.	Net Weight NaOH Lbs.	Gross Weight Solution Lbs.
1,500 Gallon Tank Trucks*	9,500	19,000	—	—
8,000 Gallon Tank Cars	52,000	104,000	83,000	113,500
10,000 Gallon Tank Cars	64,000	128,000	104,000	142,000

\*Larger capacity tank trucks are available in some areas.

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Dow Chem. Co., Midland, Mich.  
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Eagle Soap Corp., Huntington, Ind.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Geigy Agricultural Chemicals, 89 Barclay St., N. Y.  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
James Good, Inc., 2107 Susquehanna Ave., Phila.  
Haag Laboratories, Inc., Blue Island, Ill.  
Higley Chem. Co., Dubuque, Iowa  
R. M. Hollingshead Corp., Camden, N. J.  
James Huggins & Son, 239 Medford St., Malden, Mass.  
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Olin-Mathieson Chem. Corp., Baltimore  
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Sinclair Ref. Co., East Chicago, Ind.  
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Standard Oil Co. (Ind.), 910 S. Mich. Ave., Chicago  
Standard Oil Co. (Ohio), Midland Bldg., Cleveland  
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Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City, Mo.  
Trio Chem. Wks., 341 Scholes St., Brooklyn 6  
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Niagara Alkali Co., 60 E. 42nd St., N. Y.  
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Pennsylvania Salt Mfg. Co., Widener Bldg., Phila.  
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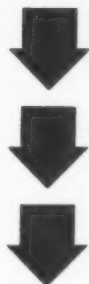
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Carnegie-Illinois Steel Corp., 208 S. La Salle St., Chicago

Colorado Fuel & Iron Corp., Claymont Steel Prods. Dept., Wickwire Spencer Steel Div., Claymont, Dela.  
Lukens Steel Corp., Coatesville, Pa.  
Republic Steel Co., Cleveland

## CLAYS

American Colloid Co., Merchandise Mart Plaza, Chicago, Illinois  
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Atlantic Refining Co., 260 S. Broad St., Phila.  
California Industrial Minerals Co., Friant, Calif.  
Carolina Pyrophyllite Co., 10 E. 40th St., N. Y. 16  
Charles B. Chrystal Co., 53 Park Pl., N. Y.  
Dicalite Div., 612 S. Flower St., Los Angeles, Calif.  
Fezandie & Sperrle, 205 Fulton St., N. Y.  
Filtrol Corp., 727 7th St., Los Angeles  
Floridin Co., 220 Liberty St., Warren, Pa.  
Georgia Kaolin Co., 433 N. Broad St., Elizabeth, N. J.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Heckathorn & Co., Richmond, Calif.  
J. M. Huber, Inc., 100 Park Ave., N. Y.  
Minerals & Chems. Corp. of America, Metuchen, N. J.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. 10  
Peerless Clay & Mineral Co., Pueblo, Colo.  
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10  
L. A. Salomon & Bro., 216 Pearl St., N. Y.  
F. E. Schundler & Co., Joliet, Ill.  
Sinclair Refining Co., East Chicago, Ind.  
Southeastern Clay Co., Aiken, S. C.  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Tamm Industries, Inc., 228 N. LaSalle St., Chicago  
United Clay Mines Corp., 101 Oakland St., Trenton, N. J.  
R. T. Vanderbilt Co., 230 Park Ave., N. Y.  
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.  
Witco Chemical Co., 122 E. 42 St., N. Y.  
Wyodak Chem. Co., 4600 E. 71 St., Cleveland

## CLEANERS, LIQUID (see also Floor Scrub Soaps, also Cleaning Fluids)

American Alcolac Corp., 3440 Fairfield Rd., Baltimore 26  
American Soap & Washoline Co., Cohoes, N. Y.  
A-M-R Chemical Co., 985 E. 35th St., Brooklyn 18  
Analab Labs., 285 Franklin St., Boston 10  
Antara Chemicals, Div. of General Aniline & Film Corp., 435 Hudson St., N. Y.  
Antiseptol Co., 5524 Northwest Highway, Chicago  
Armour Industrial Soap Dept., Chicago 9  
Baird & McGuire, Inc., Holbrook, Mass.  
Banner Chem. Prods. Co., 9 Calumet St., Newark, N. J.  
Baums Castorine Co., 200 Mathew St., Rome, N. Y.  
Beteo Corp., 830 Elysian Ave., Toledo, O.  
Bilco Chem. Co., 607 DeGraw St., Bklyn.  
Brilco Laboratories, 1553 63rd St., Brooklyn 19  
Britex Corp., 17-18 Lewis Wharf, Boston 10  
Buckingham Wax Co., 5103 Van Dam St., L. I. City, N. Y.  
Candy & Co., 2515 W. 35th St., Chicago 32  
Chemical Compounding Corp., 262 Huron St., Brooklyn  
Chemical Service of Baltimore, Howard & West Sts., Baltimore 30  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Clarkson Laboratories, 919 N. 9th St., Phila.  
Clifton Chemical Co., 62 William St., N. Y.  
C. M. C. Laboratories Co., 15 Vandewater St., N. Y. 38  
Cowles Chem. Co., 7016 Euclid Ave., Cleveland 3  
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
Cudahy Packing Co., 231 N. LaSalle St., Chicago  
Curran Corp., Lawrence, Mass.  
Davies-Young Soap Co., Dayton, Ohio  
Dow Chemical Co., Midland, Mich.  
Diversey Corp., 53 W. Jackson Blvd., Chicago  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Eagle Soap Corp., Huntington, Ind.  
Emulsol Chemical Corp., 59 E. Madison St., Chicago  
Essential Chem. Co., 2200 N. 32nd St., Milwaukee 8  
Fine Organics, Inc., 211 E. 19 St., N. Y. 3  
Franklin Research Co., 5134 Lancaster Ave., Phila., Pa.  
Frontier Chem. Prods., 119 E. Soper St., St. Louis 11  
Fuld Bros., 702 So. Wolfe St., Baltimore  
Gaylord Chem. Co., 701 Woodweather Rd., Kansas City  
Geigy Industrial Chemicals, 89 Barclay St., N. Y.  
James Good, Inc., 2107 Susquehanna Ave., Phila.

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## CLEANERS, LIQUID (Contd.)

Haag Laboratories, Inc., 14000 S. Seely Ave., Blue Island, Ill.  
 Harley Soap Co., Pierce & Orthodox Sts., Phila.  
 Higley Chemical Co., Dubuque, Iowa  
 Hockwald Chemical Co., 135 Mississippi St., San Francisco  
 R. M. Hollingshead Corp., Camden, N. J.  
 Hysan Prods. Co., 932 W. 38th Place, Chicago  
 Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
 Knoxall Corp., 1005 E. Sumner Ave., Indianapolis, Ind.  
 Los Angeles Soap Co., 617 E. 1st St., Los Angeles  
 M. & H. Laboratories, 2703 Archer Ave., Chicago  
 Magnus Chemical Co., 83 South Ave., Garwood, N. J.  
 M. Michel & Co., 90 Broad St., N. Y.  
 Midland Labs., Dubuque, Iowa  
 Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
 National Chemical Laboratories, 825 Lombard St., Phila.  
 National Laboratories, Inc., 4934 Lewis Ave., Toledo, O.  
 National Milling & Chem. Co., 4601 Nixon St., Phila.  
 National Sanitary Prods., 3944 Olive St., St. Louis 8  
 New Jersey Chem. Co., 56 Park Ave., Lynhurst, N. J.  
 Ninol Laboratories, 1719 S. Clinton St., Chicago 16  
 Nopco Chemical Co., Harrison, N. J.  
 Oil-Kraft, Inc., 3330 Beekman St., Cincinnati  
 G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis  
 J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.  
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
 Pennsylvania Refining Co., Butler, Pa.  
 Penna. Salt Mfg. Co., Widener Bldg., Phila.  
 Perrow Chemical Co., Hurt, Va.  
 Philadelphia Quartz Co., Public Ledger Bldg., Phila.  
 Procter & Gamble Dist. Co., Cincinnati 1  
 Puritan Chem. Co., Atlanta, Ga.  
 Quaker Chem. Prods. Co., Conshohocken, Pa.  
 Refined Prods. Corp., Lyndhurst, N. J.  
 Reily Chemical Co., Industrial Prods. Div., P. O. Box 98, New Orleans, La.  
 Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
 Rochester Sanitary Prods. Co., 874 Seward St., Rochester, N. Y.  
 Sanders Chem. Co., 2205 N. American St., Phila. 33  
 Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
 Science Industries, 1509 N. Broadway, St. Louis  
 Simoniz Co., 2100 Indiana Ave., Chicago 16  
 Slick-Shine Co., 207 Astor St., Newark, N. J.  
 E. B. Snyder Laboratories, 4450 Leiper St., Phila. 24  
 L. Sonneborn Sons, 300—4th Ave., N. Y.  
 John T. Stanley Co., 642 W. 30th St., N. Y.  
 John C. Stalfort & Sons, 319 W. Pratt St., Baltimore  
 George Stearns Chem. Corp., 4200 E. Mendota St., Madison, Wisc.  
 M. D. Stetson Co., 64 E. Brookline St., Boston  
 Sugar Beet Prods. Co., Saginaw, Mich.  
 Swift & Co., Chicago 9  
 Theobald Industries, P. O. Box 72, Harrison, N. J.  
 Tesco Chemicals, Inc., Atlanta 5, Ga.  
 Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City, Mo.  
 Treplow Prods., Inc., 59 Camden St., Paterson, N. J.  
 Trio Chem. Wks., 341 Scholes St., Bklyn.  
 Twi-Laq Chem. Co., 25 N. Portland Ave., Bklyn.  
 Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
 Uncle Sam Chemical Co., 573 W. 131st St., New York City  
 U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12  
 James Varley & Sons, 1200 Switzer Ave., St. Louis  
 Veneer-O-Wax Corp., 2010-12 E. Fletcher St., Phila. 25  
 Vestal, Inc., 4963 Manchester St., St. Louis 10  
 Warwick Chemical Co., 10-10 44 Ave., Long Island City, N. Y.  
 Welch, Holme & Clark Co., 439 West St., N. Y.  
 Wilco Co., 4425 Bandinni Blvd., Los Angeles  
 Windsor Wax Co., 611 Newark St., Hoboken, N. J.  
 G. H. Wood & Co., Box 34, Toronto, Ont., Canada  
 Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.  
 Zeen Chemical Co., 2000 Elm St., Cleveland 13

## CLEANING COMPOUNDS, DRY

Aid Soap Mfg. Co., Rochester, Pa.  
 American Alcolac Corp., 3440 Fairfield Rd., Baltimore 26  
 Armour Industrial Soap Dept., Chicago 9

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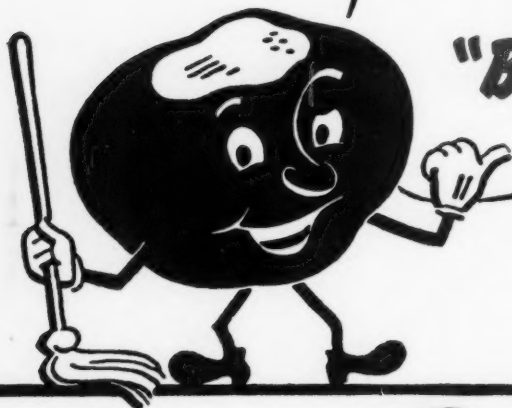
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- Pine-Jell Soap
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 Baird & McGuire, Inc., Holbrook, Mass.  
 Baums Castorine Co., 200 Mathew St., Rome, N. Y.  
 Banner Chem. Prods. Co., 9 Calumet St., Newark, N. J.  
 Beach Soap Co., Lawrence, Mass.  
 Bilco Chemical Co., 607 DeGraw St., Bklyn.  
 Blockson Chemical Co., Joliet, Ill.  
 Bonewitz Chemicals, Inc., Burlington, Ia.  
 Brilco Laboratories, 1553 63rd St., Brooklyn, N. Y.  
 Britex Corp., 17 Lewis Wharf, Boston 10  
 California Industrial Minerals Co., Friant, Calif.  
 Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.  
 Philip Carey Mfg. Co., Lockland, Cincinnati  
 Cary Mfg. Co., 2063 Balboa Ave., San Diego, Calif.  
 Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago  
 Chem. Service of Balto., Howard & West Sts., Balto.  
 Clarkson Laboratories, 919 N. 9th St., Phila. 23  
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
 Click Chemical Corp., Columbia & Carleton Ave., Mt. Vernon, N. Y.  
 Clifton Chem. Co., 62 William St., N. Y.  
 C.M.C. Laboratories Co., 15 Vandewater St., N. Y. 38  
 Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
 Columbia-Southern Chem. Corp., 5th Ave. & Bellefield, Pittsburgh  
 Continental Car-Na-Var Corp., Brazil, Ind.  
 Continental Oil Co., 630 5th Ave., N. Y. 20  
 Cowles Chemical Co., 7016 Euclid Ave., Cleveland, Ohio  
 Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
 Cudahy Packing Co., 221 N. LaSalle St., Chicago  
 Davies-Young Soap Co., Dayton, O.  
 Diamond Alkali Co., Union Commerce Bldg., Cleveland  
 Diversey Corp., 53 W. Jackson Blvd., Chicago  
 Dow Chem. Co., Midland, Mich.  
 E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
 E. I. du Pont de Nemours & Co., Wilmington,  
 Eagle Soap Corp., Huntington, Ind.  
 East Coast Soap Corp., 89 Coffey St., Bklyn. 31  
 Emeryville Chem. Co., 405 Montgomery St., San Francisco  
 Emulsol Chemical Corp., 59 E. Madison St., Chicago  
 Essential Chem. Co., 2200 N. 32nd St., Milwaukee 8  
 Filtrol Corp., 727 W. 7th St., Los Angeles  
 Frontier Chem. Prods. Co., 119 E. Soper St., St. Louis  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 Geigy Industrial Chemicals, 89 Barclay St., N. Y.  
 Guardian Chem. Corp., 10-15 43 Ave., Long Island City  
 Gaylord Chem. Co., 701 Woodweather Rd., Kansas City  
 James Good, Inc., 2107 Susquehanna Ave., Phila.  
 Higley Chemical Co., Dubuque, Iowa  
 R. M. Hollingshead Corp., Camden, N. J.  
 Hunnewell Soap Co., 114 W. 2 St., Cincinnati  
 Hunt Mfg. Co., Lisbon Rd., Cleveland  
 Hysan Prods. Co., 932 W. 38th Place, Chicago  
 J. Chemical Works Co., 602 W. 37th St., N. Y. 18  
 Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
 Klix Chem. Co., 2460 Third St., San Francisco  
 H. Kohnstamm & Co., 91 Park Pl., N. Y.  
 Los Angeles Soap Co., Los Angeles, Calif.  
 M. & H. Laboratories, 2703 Archer Ave., Chicago  
 M. Michel & Co., 90 Broad St., N. Y.  
 Midland Labs., Dubuque, Iowa  
 Moss Soap Co., Pinellas Intl. Airport, St. Petersburg, Fla.  
 Nat'l Milling & Chemical Co., 4601 Nixon St., Phila. 27  
 Nopco Chemical Co., First & Essex Sts., Harrison, N. J.  
 National Soap Co., 357 South 25th St., Tacoma, Wash.  
 North Coast Soap & Chem. Wks., Seattle, Wash.  
 Oronite Chem. Co., 200 Bush St., San Francisco  
 G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10  
 J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.  
 Peck's Prod. Co., 610 E. Clarence Ave., St. Louis  
 Philadelphia Quartz Co., Public Ledger Bldg., Independence Sq., Phila. 6  
 Port Huron Detergent Co., Port Huron, Mich.  
 Procter & Gamble Distributing Co., Cincinnati  
 Puritan Chem. Co., Atlanta, Ga.  
 Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
 Rulon Laboratories, Bryant Bldg., Kansas City  
 Sanders Chem. Co., 2205 N. American St., Phila. 33  
 Savin Products Co., 1221 Dorchester Ave., Boston 25  
 Science Industries, 1509 N. Broadway, St. Louis  
 Skotch Products Co., 2710 Detroit Ave., Cleveland

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**W**ONDERFUL for dishes that will sparkle with a cheerful brightness and are dried free from toweling smudges.

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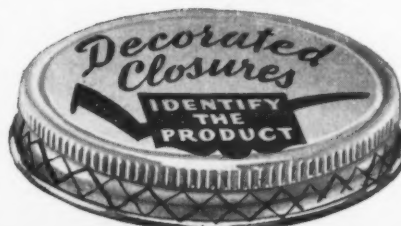
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Slick-Shine Co., 207 Astor St., Newark, N. J.  
E. B. Snyder Laboratories, 4450 Leiper St., Phila. 24  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
S. & S. Soap Co., 815 E. 135 St., N. Y. 54  
John T. Stanley Co., 642 W. 30th St., N. Y.  
George Stearns Chemical Corp., 4200 E. Mendota St., Madison, Wis.  
M. D. Stetson Co., 64 E. Brookline St., Boston  
Stevens Soap Corp., 200 Sullivan St., Brooklyn  
Sugar Beet Prods. Co., Saginaw, Mich.  
Swift & Co., Chicago 9  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Tex-Itte Prods. Co., 885 Flatbush Ave., Brooklyn 26  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City, Mo.  
Treprow Prods., Inc., 59 Camden St., Paterson, N. J.  
Trio Chem. Wks., 341 Scholes St., Bklyn.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.  
U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12  
James Varley & Sons, 1200 Switzer Ave., St. Louis  
Virginia-Carolina Chem. Corp., Richmond 5, Va.  
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Westvaco Mineral Prods. Div., Food Machy. & Chem. Corp., 161 E. 42 St., N. Y. 17  
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.  
Zeen Chemical Co., 2000 Elm St., Cleveland 13

## CLEANING FLUIDS (Spotting Fluids)

American Alcolac Corp., 3440 Fairfield Rd., Baltimore 26  
Ampion Corp., 4-88—47th Ave., Long Island City, N. Y.  
A-M-R Chemical Co., 985 E. 35th St., Brooklyn 18  
Amsco Solvents & Chems. Co., 4617 Reading Rd., Cincinnati  
Anderson-Prichard Oil Corp., 1000 Liberty Bank Bldg., Okla. City, Okla.  
Armour & Co., 1355 W. 31st St., Chicago  
Atlantic Refining Co., 260 South Broad St., Phila.  
Baums Castorine Co., 200 Mathew St., Rome, N. Y.  
Bilco Chemical Co., 607 DeGraw St., Bklyn.  
Boston Chem. Industries, 64 E. Brookline St., Boston 18  
Brilco Laboratories, 1553 63rd St., Brooklyn 19  
Britex Corp., 17-18 Lewis Wharf, Boston 10  
Buckingham Wax Co., 51-03 Van Dam St., LIC, N. Y.  
Buffalo Solvents & Chem. Corp., P. O. # 73, Sta. B, Buffalo, N. Y.  
Cadet Laboratories, 10 Clarence St., Worcester 5, Mass.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Davies-Young Soap Co., Dayton, O.  
Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
E. I. du Pont de Nemours & Co., Wilmington  
Eagle Soap Corp., Huntington, Ind.  
Elkay Products Corp., 323 W. 16th St., N. Y.  
Emulsol Chemical Corp., 59 E. Madison St., Chicago  
Fine Organics, Inc., 211 E. 19 St., N. Y. 3  
Higley Chem. Co., Dubuque, Iowa  
R. M. Hollingshead Corp., Camden, N. J.  
James Huggins & Son, Malden, Mass.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Pennsylvania Refining Co., Butler, Pa.  
Products Packaging, Inc., 6400 Herman Ave., Cleveland 2  
Sanders Chem. Co., 2205 N. American St., Phila. 33  
Science Industries, 1509 N. Broadway, St. Louis  
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland  
Slick-Shine Co., 207 Astor St., Newark, N. J.  
E. B. Snyder Labs., 4450 Leiper St., Phila. 24  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y. 6  
Standard Oil Co., (Calif.), 225 Bush St., San Francisco  
Standard Oil Co., (Ind.), 910 S. Michigan Ave., Chicago  
Tesco Chemical, Inc., Atlanta 5, Ga.  
Trio Chem. Wks., 341 Scholes St., Bklyn.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.  
U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12

Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada  
Wolverine Solvents & Chems. Co., 1500 Century Ave., SW, Grand Rapids, Mich.  
Zeen Chemical Co., 2000 Elm St., Cleveland 13

## CLEANING MACHINERY (for Bottles and Jars)

Alsop Engineering Corp., Milldale, Conn.  
Arenco Mach. Co., 25 W. 43rd St., N. Y. 18  
Chisholm-Ryder Co., Hanover, Penna.  
Consolidated Package Machy. Corp., 1400 West Ave., Buffalo, N. Y.  
Hope Machine Co., 9400 State Rd., Phila.  
Karl Kiefer Mach. Co., 919 Martin St., Cincinnati  
M.R.M. Co., 91 Berry St., Bklyn. 11  
Packer Mach. Corp., 32 Irving Pl., N. Y.  
Perl Mach. Mfg. Co., 68 Jay St., Brooklyn 1  
Pneumatic Scale Corp., North Quincy, Mass.  
F. J. Stokes Mach. Co., 5918 Tabor Rd., Phila.  
U. S. Bottlers Machy. Co., 4019 N. Rockwell St., Chicago

## CLIPS (for collapsible Tubes) (see also Tubes, Collapsible)

Arthur Colton Co., 3400 E. Lafayette Ave., Detroit  
Standard Spec. & Tube Co., New Brighton, Pa.

## CLOSURES (see also Can Spouts, also Caps)

Anchor Hocking Glass Corp., Lancaster, O.  
American Flange & Mfg. Co., 30 Rockefeller Plaza, N. Y.  
Ball Brothers Co., 1509 S. Macedonia, Muncie, Ind.  
Closure Service Co., Toledo, O.  
Continental Can Co., 100 E. 42nd St., N. Y.  
Crown Cork & Seal Co., Baltimore  
Owens-Illinois Glass Co., Toledo, O.  
Poly Seal Corp., 405 Lexington Ave., N. Y. 17  
Rieke Metals Prods. Co., Auburn, Indiana  
Roubechez, Inc., 8 E. 12th St., N. Y. 3  
Seal Spout Corp., 363 Jelliff Ave., Newark 8, N. J.  
Standard Cap & Molding Co., 307 S. Eaton St., Baltimore

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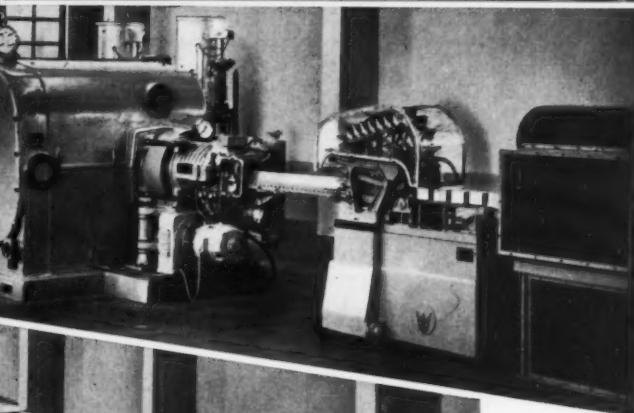
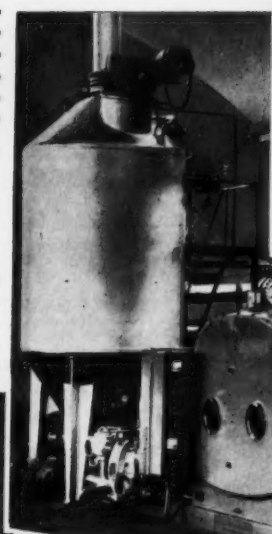
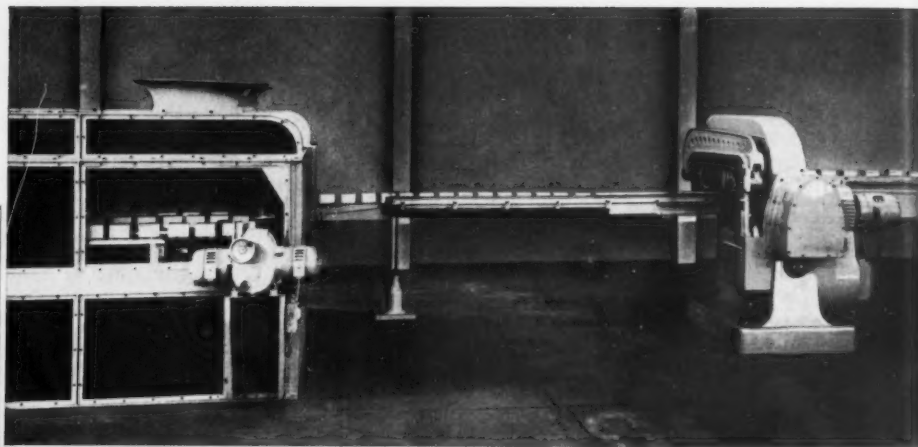
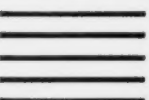


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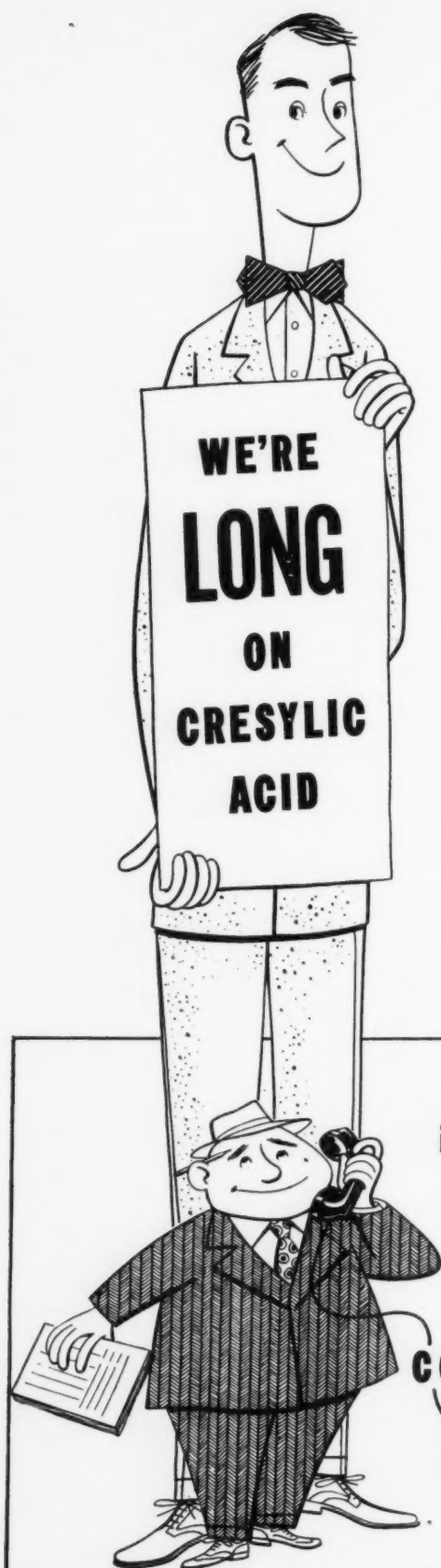
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(see also *Brokers and Dealers*)

American Maize Prods. Co., 100 E. 42nd St., N. Y.  
Archer-Daniels-Midland Co., Minneapolis 2  
Balfour, Guthrie & Co., Ltd., 67 Wall St., N. Y.  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
Corn Products Refining Co., 17 Battery Pl., N. Y.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Durkee Famous Foods, Inc., 2670 Elston Ave., Chicago  
Otto A. C. Hagen Corp., 929 Public Ledger Bldg., Phila.  
Hasselmann, Seaman, de Ryss, Inc., 347 Madison Ave., N. Y. 17  
Spencer Kellogg & Sons, 98 Delaware Ave., Buffalo, N. Y.  
National Starch Products, 270 Madison Ave., N. Y.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.

## CORN OIL FATTY ACIDS

Archer-Daniels-Midland Co., Minneapolis 2, Minn.  
Armour Chemical Division, 1355 W. 31st St., Chicago  
Capital City Prods. Co., 525 W. 1st St., Columbus, O.  
Corn Prods. Sales Corp., 17 Battery Pl., N. Y. 4  
Darling & Co., 4201 S. Ashland Ave., Chicago 9  
Emery Industries, Carew Tower, Cincinnati  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
A. Gross & Co., 295 Madison Ave., N. Y. 17  
Harchem Div., Wallace & Tiernan, Inc., Box 178, Newark, N. J.  
A. E. Staley Mfg. Co., Decatur, Ill.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Joseph Turner & Co., Ridgefield, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Woburn Chemical Corp., Harrison, N. J.  
G. S. Ziegler & Co., 99 Church St., N. Y. 17

## CORN STARCH

(see also *Dealers*)

American Maize Products Co., 100 E. 42 St., N. Y.  
Archer-Daniels-Midland Co., Minneapolis  
Clinton Foods, Corn Processing Division, Clinton, Iowa  
Corn Products Sales Co., 17 Battery Pl., N. Y.  
Durkee Famous Foods, Inc., 2670 Elston Ave., Chicago  
National Starch Products Co., 270 Madison Ave., N. Y.  
A. E. Staley Mfg. Co., Decatur, Ill.  
Stein, Hall & Co., 285 Madison Ave., N. Y. 17  
Welch, Holme & Clark Co., 439 West St., N. Y.

## COSMETICS (Private Brand Compacts, Lipsticks, Etc.)

Avon Products, Inc., Suffern, N. Y.  
Analab Labs., 285 Franklin St., Boston 10  
G. Barr & Co., 3601 S. Racine Ave., Chicago  
Cadet Laboratories, 10 Clarence St., Worcester 5, Mass.  
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark, N. J.  
Richard Gesell, Inc., 200 W. Houston St., N. Y.  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

## COTTONSEED FATTY ACIDS (and Soapstock)

Archer-Daniels-Midland Co., Minneapolis 2  
Armour Chemical Division, 1355 W. 31st St., Chicago  
Capitol City Prods. Co., 525 W. 1st Ave., Columbus 16, O.  
Concord Chemical Co., Moorestown, N. J.  
T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Eastern Industries, Inc., Ridgefield, N. J.

Emery Industries, Inc., 4300 Carew Tower, Cincinnati  
General Mills, Chemical Div., 400 2nd Ave., S., Minn. 1  
A. Gross & Co., 295 Madison Ave., N. Y.  
Otto A. C. Hagen Corp., 929 Public Ledger Bldg., Philadelphia, Penna.  
Harchem Div., Wallace & Tiernan, Inc., Box 178, Newark, N. J.  
Spencer-Kellogg & Sons, 98 Delaware Ave., Buffalo, N. Y.  
Portsmouth Cotton Oil Refining Co., Portsmouth, Va.  
J. H. Redding, Inc., 17 Battery Place, N. Y.  
Southern Cotton Oil Co., 25 Broad St., N. Y.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Wilson-Martin Div., Swanson St., Phila.  
Woburn Chemical Corp., Harrison, N. J.  
G. S. Ziegler & Co., 99 Church St., N. Y. 7

## COTTONSEED OIL

(see also *Brokers and Dealers*)

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E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Otto A. C. Hagen Corp., 929 Public Ledger Bldg., Phila.  
Spencer Kellogg & Sons, Buffalo, N. Y.  
Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Angeles  
Portsmouth Cotton Oil Refining Corp., Portsmouth, Va.  
J. H. Redding Co., 17 Battery Pl., N. Y.  
Rosenthal Berrow Co., 23 E. 26th St., N. Y.  
C. F. Simonin's Sons, Phila.  
Southern Cotton Oil Co., 25 Broad St., N. Y.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y.

## COUMARIN

(see also *Aromatic Chemicals*)

Aromatic Products, Inc., 15 E. 30th St., N. Y.  
Dodge & Olcott, Inc., 180 Varick St., N. Y.  
Dow Chemical Co., Midland, Mich.  
Felton Chemical Co., 603 Johnson Ave., Brooklyn  
Florasynt Laboratories, 900 Van Nest Ave., N. Y.  
Fritzsche Bros., 76 Ninth Ave., N. Y. 11  
Givaudan-Delawanna, 330 W. 42nd St., N. Y.  
Lautier Fils, 321 5th Ave., N. Y. 16  
Magnus, Mabey & Reynard, 16 Desbrosses Street, N. Y.  
Maywood Chemical Wks., Maywood, N. J.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
Neumann, Buslee & Wolfe, Inc., 5800 Northwest Highway, Chicago  
Norda Essential Oil & Chem. Co., 601 W. 26 St., N. Y.  
Roubechez, Inc., 8 E. 12th St., N. Y.  
Rhodia, Inc., 230 Park Ave., N. Y.  
Schimmel & Co., 601 W. 26th St., N. Y.  
Sterwin Chemicals, Inc., 1450 Broadway, N. Y.  
Ungerer & Co., 161 Ave. of Americas, N. Y. 13  
Verona Chem. Co., 26 Verona Ave., Newark, N. J.

## CREOSOTE OIL (see Coal Tar Raw Materials)

## CRESOL COMPOUND, U.S.P. and Technical (see Disinfectants, Coal Tar)

## CRESOLS

Baird & McGuire, Inc., Holbrook, Mass.  
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Coal Tar Chemicals Corp., 420 Lexington Ave., N. Y.  
Concord Chem. Co., Moorestown, N. J.  
Wm. Cooper & Nephews, 1909 Clifton Ave., Chicago  
James Huggins & Son, Malden, Mass.  
Koppers Co., Pittsburgh, Pa.  
Neville Chemical Co., Pittsburgh 25  
Penna. Industrial Chem. Corp., Clairton, Pa.  
Riches-Nelson, Inc., 342 Madison Ave., N. Y.  
Reilly Tar & Chemical Co., Merchant Bank Bldg., Indianapolis  
Standard Naphthalene Prods. Co., S. Kearny, N. J.  
Tar Residuals, Inc., 420 Lexington Ave., N. Y.  
U. S. Steel Corp., Pittsburgh  
James Varley & Sons, 1200 Switzer Ave., St. Louis

**CUTTING TABLES** (see Soap Machinery)

**CYANIDES** (see Fumigants) (see Sodium Cyanide)

**DD FUMIGANTS**

Shell Chemical Corp., 50 W. 50 St., N. Y.

**DDT (Dichloro-diphenyl-trichloroethane) (Technical)**

Diamond Alkali Co., Union Commerce Bldg., Cleveland  
Dow Chem. Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.  
Michigan Chem. Corp., St. Louis, Mich.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis, Mo.  
Pennsylvania Salt Mfg. Co., Widener Bldg., Phila.  
Pittsburgh Coke & Chem. Co., 2000 Grant Bldg., Pittsburgh 19  
John Powell Div., 1 Park Ave., N. Y. 16  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
Stauffer Chemical Co., 380 Madison Ave., N. Y.  
Westvaco Chlor-Alkali Div., Food Machy. & Chem. Corp., 161 E. 42nd St., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

**DDT FORMULATIONS (Liquids and Powders)**

American Potash & Chem. Corp., 3100 E. 26th St., Los Angeles  
A-M-R Chemical Co., 985 E. 35th St., Bklyn. 10  
Analab Labs., 285 Franklin St., Boston 10  
Baird & McGuire, Inc., Holbrook, Mass.  
Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport, Conn.  
Brilco Laboratories, 1553 63rd St., Brooklyn 19  
Atlas Powder Co., Wilmington, Del.  
California Spray-Chemical Corp., Richmond, Calif.

Chase Prods. Co., 1816 St. Charles Rd., Maywood, Ill.  
Central Chemical Co., 5137 S. West Ave., St. Louis  
Derris, Inc., 120 Wall St., N. Y.  
Diamond Alkali Co., Union Commerce Bldg., Cleveland 14  
Douglas Chem. Co., 620 E. 16 Ave., North Kan. City, Mo.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington  
Eagle Soap Corp., Huntington, Ind.  
Elkay Prods. Co., 323 W. 16th St., N. Y. 11  
Fine Organics, Inc., 211 E. 19th St., N. Y.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Geigy Agricultural Chemicals, 89 Barclay St., N. Y.  
General Chemical Div., Allied Chemical & Dye Corp., 40 Rector St., N. Y.  
Heckathorn & Co., Richmond, Calif.  
Hockwald Chemical Co., 135 Mississippi St., San Francisco  
Hysan Products Co., 932 W. 38th Pl., Chicago  
McLaughlin, Gormley, King Co., 1715 5th St., S.E., Minneapolis  
Michigan Chemical Corp., St. Louis, Mich.  
Midland Laboratories, Dubuque, Iowa  
Miller Products Co., 1932 S. W. Water Ave., Portland, Ore.  
Old Empire Inc., Mt. Prospect & Verona Ave., Newark, N. J.  
Olin Mathieson Chem. Soap. Corp., Baltimore 3  
S. B. Penick & Co., 50 Church St., N. Y.  
Penna. Salt Mfg. Co., Widener Bldg., Phila.  
Pittsburgh Coke & Chem. Co., 2000 Grant Bldg., Pittsburgh  
John Powell Div., 1 Park Ave., N. Y.  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
Science Industries, 1509 N. Broadway, St. Louis  
Shell Chem. Corp., 50 W. 50th St., N. Y. 20  
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Westvaco Chlor Alkali Div., Food Machy. & Chem. Corp.,  
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Wilco Co., 4425 Bandini Blvd., Los Angeles 23

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N. Y.  
Amsco Solvents & Chemicals Co., 4619 Reading Road,  
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Axton-Cross Co., Shelton, Conn.  
Baker & Gaffney, Drexel Bldg., Philadelphia  
H. J. Baker & Bro., 271 Madison Ave., N. Y.  
Barada & Page, Kansas City, Mo.  
S. H. Bell Co., 1407 Gulf Bldg., Pittsburgh  
Benner Chemical Co., 20 N. Wacker St., Chicago  
Buffalo Solvents & Chemicals Corp., Box 73 Station B,  
Buffalo 7, N. Y.  
John H. Calo Co., 19 Rector St., N. Y. 6  
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John A. Chew, Inc., 60 E. 42nd St., N. Y.  
Consumers Chemical Co., Drexel Bldg., Philadelphia  
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DeMert & Dougherty, Inc., 3001 W. 47th St., Chicago 32  
Dickerson Co., Drexel Bldg., Phila.  
Doe & Ingalls, 56 Garden St., Boston  
A. C. Drury & Co., 219 E. North Water St., Chicago  
Eastern Industries, Ridgefield, N. J.  
Eaton Clark Co., 1490 Franklin St., Detroit  
Faesy & Besthoff, 325 Spring St., N. Y.  
Alex C. Fergusson Co., Drexel Bldg., Phila.  
Fort Pitt Chemical Co., 3134 Penn Ave., Pittsburgh  
Gaylord Chem. Co., 701 Woodweather Rd., Kansas City  
Globe Chemical Co., Murray Road, Cincinnati  
Griffin Chem. Co., 1000 16th St., San Francisco  
Otto A. C. Hagen Corp., 929 Public Ledger Bldg., Phila.  
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Heckathorn & Co., Richmond, Calif.  
Herbert Chem. Co., Vine & Murray Rd., Cincinnati  
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave.,  
Indianapolis 22, Ind.  
Howe & French, 99 Broad St., Boston  
Hummel Chemical Co., 90 West St., N. Y.  
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Los Angeles Chem. Co., 2200 Santa Fe Ave., Los Angeles  
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Missouri Solvents & Chemicals Co., 419 De Soto Ave.,  
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Clarence Morgan & Co., 919 N. Michigan Ave., Chicago  
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R. F. Revson Co., 144 W. 18th St., N. Y.  
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Southern Solvents & Chemicals Corp., 1352 Jefferson  
Highway, New Orleans 18, La.  
Tar Residuals, Inc., 420 Lexington Ave., N. Y.  
Texas Solvents & Chemicals Co., 8501 Market St.,  
Houston 15, Texas  
Thompson-Hayward Chem. Co., 2915 Southwestern Blvd.,  
Kansas City  
Arthur C. Trask Co., 4103 S. La Salle St., Chicago, Ill  
Jos. Turner & Co., Ridgefield, N. J.  
Chas. A. Wagner Co., 813 Callowhill St., Phila.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Western Solvents & Chemicals Co., 6472 Selkirk Ave.,  
Detroit 11, Michigan  
G. A. Wharry & Co., 125 Broad St., N. Y. 4

Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St.,  
Milwaukee 14, Wis.  
Wolverine Solvents & Chemicals Co., 1500 Century Ave.,  
S.W., Grand Rapids 9, Mich.

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T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
Geo. Degen & Co., 111 Broadway, N. Y. 6  
Otto A. C. Hagen Corp., 929 Public Ledger Bldg., Phila.  
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O. G. Innes Corp., 82 Wall St., N. Y.  
Leghorn Trading Co., 141 E. 44th St., N. Y. C.  
Miller & Co., 2401 Chestnut St., Philadelphia  
Murray Oil Products Co., 21 West St., N. Y.  
Newman Tallow & Soap Machinery Co., 1501 W. 35th St.,  
Chicago  
Rosenthal Bercow, 23 E. 26 St., N. Y. 10  
Willibald Schaefer Co., Foot of Boemen Ave., St. Louis  
Sergeant Pulp & Chemical Co., 7 Dey St., N. Y.  
Smith-Weihman Co., 15 Moore St., N. Y.  
Swan-Finch Oil Corp., 205 E. 42nd St., N. Y.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Arthur C. Trask Co., 4103 S. La Salle St., Chicago  
Welch, Holme & Clark Co., 439 West St., N. Y.  
G. A. Wharry & Co., 125 Broad St., N. Y. 4

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General Electric Co., Waterford, N. Y.  
Linde Air Prods. Co., 30 E. 42nd St., N. Y.

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Cincinnati  
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## DEODORANTS, Room Deodorants, Air Conditioning, Etc. (see Lists under Disinfectants; Glycol Sprays; Theatre Sprays)

## DEODORIZED BASE OILS (See Insecticide Base Oils, Deodorized)

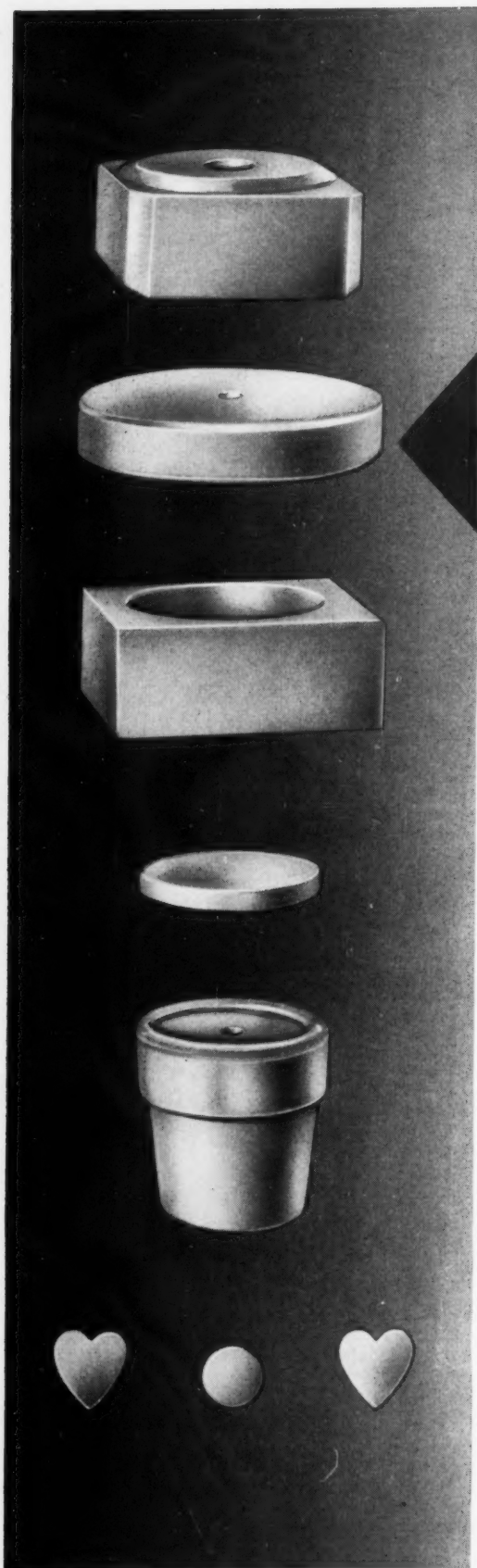
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Klix Chem. Co., 2460 Third St., San Francisco

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Heckathorn & Co., 641 Fourth St., Richmond, Calif.  
Miller Products Co., 1932 S. W. Water Ave., Portland, Ore.  
S. B. Penick & Co., 50 Church St., N. Y.  
John Powell Div., 1 Park Ave., N. Y.  
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by John W. McCutcheon

This 435 page book covers all phases of detergent manufacture. The seven chapters include an introduction, fundamentals of surface activity, evaluation methods and analytical examination of detergents, examination of surface active agents and synthetic detergents by class and type, manufacturing processes and raw materials, trade names, products and processes, and applications and uses. The author presents a thorough theoretical background on the fundamentals of surface activity and the relation of surface activity to detergency, emulsification, foaming, wetting and dispersion. Manufacturing processes are thoroughly analyzed and the detergent compounds are classified according to class, manufacture, application and processing.

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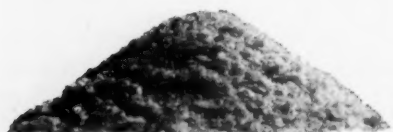
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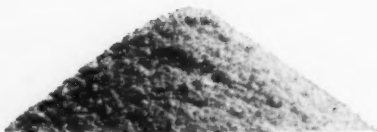
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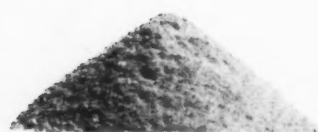
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 El Dorado Oil Wks., P. O. Box 599, Oakland, Calif.  
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 M. Michel & Co., 90 Broad St., N. Y. 4  
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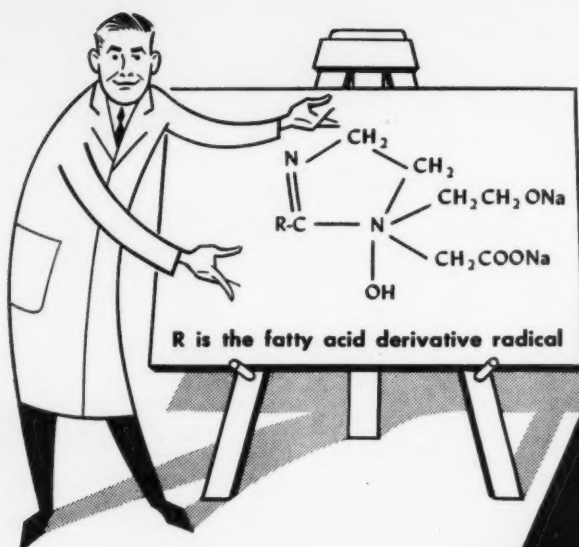
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 Virginia-Carolina Chem. Corp., 401 E. Main St.,  
 Richmond, Virginia  
 Welch, Holme & Clark Co., 439 West St., N. Y. 14  
 Westvaco Mineral Prods. Div., 161 E. 42 St., N. Y. 17  
 Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte,  
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 Armour Industrial Soap Co., 630 5th Ave., N. Y. 20  
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 Atlas Powder Co., Wilmington 99, Dela.  
 Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
 Continental Oil Co., 630 5th Ave., N. Y. 20  
 E. I. du Pont de Nemours & Co., Wilmington  
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 Emulsol Chem. Corp., 59 E. Madison St., Chicago  
 Marchon Prods., Ltd., Whitehaven, Cumberland, England  
 M. Michel & Co., 90 Broad St., N. Y. 4  
 Monsanto Chem. Co., St. Louis 4  
 National Aniline Div., Allied Chem. & Dye Corp., 40  
 Rector St., N. Y.  
 Ninol Laboratories, 1719 S. Clinton St., Chicago 16  
 Oronite Chemicals Co., 200 Bush St., San Francisco 20  
 Procter & Gamble Dist. Co., Cincinnati  
 Stepan Chem. Co., 20 N. Wacker Dr., Chicago  
 Swift & Co., Chicago 9  
 Tennessee Corp., 617 Grant Bldg., Tenn.  
 Treprow Prods., Inc., 59 Camden St., Paterson, N. J.  
 Ultra Chem. Wks., 2 Wood St., Paterson N. J.  
 Universal Detergents, Inc., 1825 E. Spring St., Long  
 Beach 6, Calif.  
 Virginia-Carolina Chem. Corp., 401 E. Main St., Rich-  
 mond, Va.  
 Warwick Chem. Co., 10-10 44th Ave., Long Island City,  
 N. Y.  
 Wyandotte Chemicals Corp., Michigan Alkali Div.,  
 Wyandotte, Mich.  
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 Armour Industrial Soap Dept., Chicago 9  
 Atlas Powder Co., Wilmington 99, Dela.  
 Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17  
 E. F. Drew & Co., 15 E. St., N. Y. 10  
 E. I. du Pont de Nemours & Co., Wilmington, Dela  
 Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
 Emulsol Chemical Corp., 89 E. Madison St., Chicago  
 Marchon Prods., Inc., Whitehaven, Cumberland, England  
 M. Michel & Co., 90 Broad St., N. Y. 4  
 Mona Industries, Inc., Paterson 4, N. J.  
 Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey  
 City 2 N. Y.  
 Procter & Gamble Dist. Co., Cincinnati  
 Rohm & Haas Co., Washington Square, Phila. 5  
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 Treprow Prods., Inc., 59 Camden St. Paterson, N. J.  
 Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
 Virginia-Carolina Chem. Corp., 401 E. Main St.,  
 Richmond, Va.  
 Warwick Chemical Co., 10-10 44th Ave., Long Island,  
 N. Y.  
 Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

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 Atlas Powder Co., Wilmington 99, Dela.  
 Carbide & Carbon Chem. Co., 30 E. 42 St., N. Y. 17  
 E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
 E. I. du Pont de Nemours & Co., Wilmington  
 Emulsol Chem. Corp., 59 E. Madison St., Chicago  
 M. Michel & Co., 90 Broad St., N. Y. 4  
 Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey  
 City 2, N. J.  
 Stepan Chem. Co., 20 N. Wacker Dr., Chicago  
 Treprow Products, Inc., 50 Camden St., Paterson, N. J.  
 Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
 Virginia-Carolina Chem. Corp., 401 E. Main St., Rich-  
 mond, Va.  
 Warwick Chem. Co., 10-10 44 Ave., Long Island City,  
 N. Y.  
 Welch, Holme & Clark Co., 439 West St., N. Y. 4  
 Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

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 E. Drew & Co., 15 E. 26 St., N. Y. 10  
 Finetex, Inc., P. O. Box 414, Pompton Plains, N. J.  
 Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
 Emulsol Chem. Corp., 59 E. Madison St., Chicago  
 Knapp Products, Inc., Lodi, N. J.  
 Marchon Prods. Ltd., Whitehaven, Cumberland, England  
 M. Michel & Co., 90 Broad St., N. Y. 4  
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 Van Dyk & Co., Belleville 9, N. J.  
 Virginia-Carolina Chem. Corp., 401 E. Main St.  
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 Warwick Chem. Co., 10-10 44 Ave., Long Is. City, N. Y.  
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 Atlas Powder Co., Wilmington 99, Dela.  
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 Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
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 Emulsol Chem. Corp., 59 E. Madison St., Chicago  
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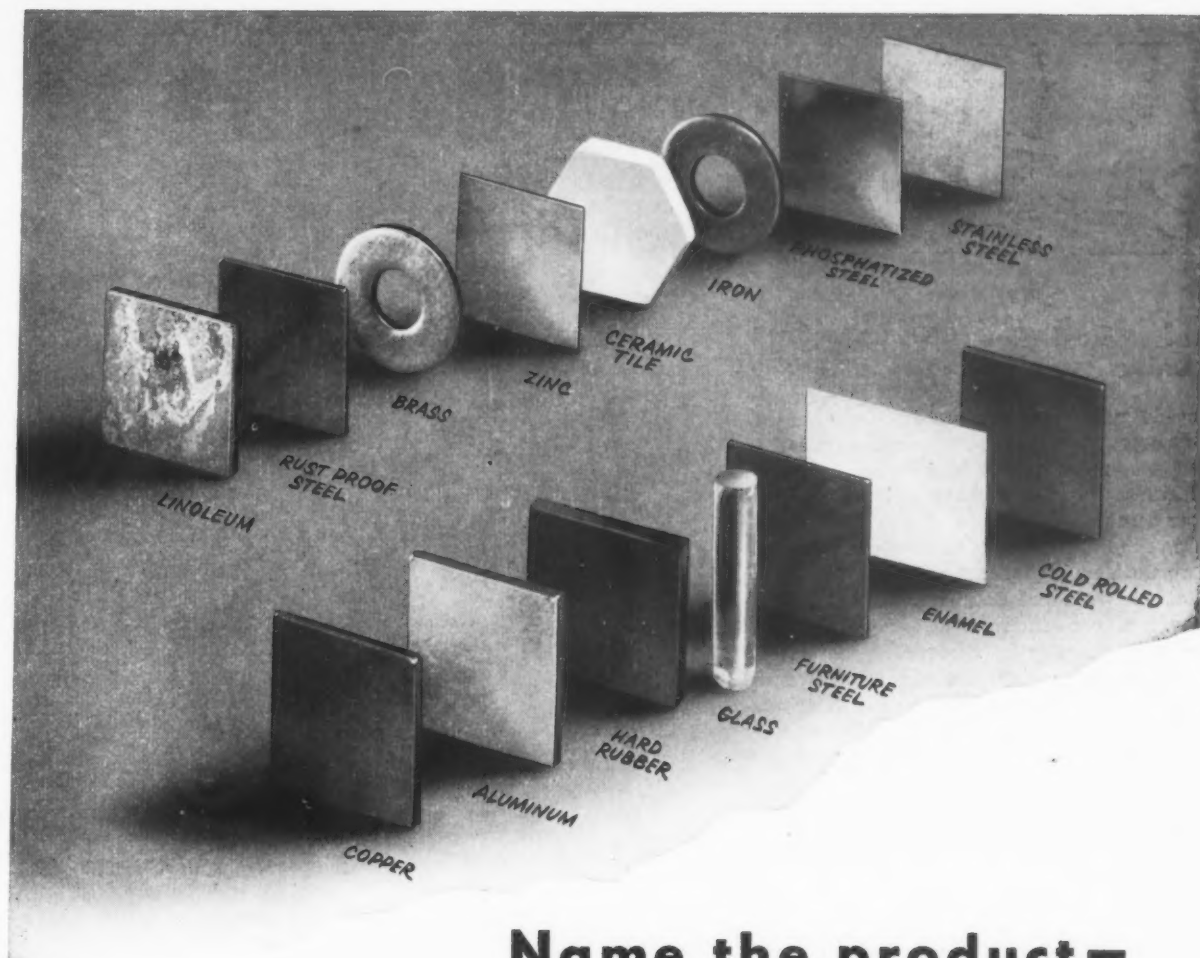
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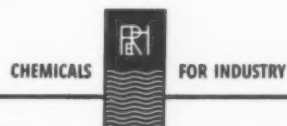
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Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
Antara Chemicals, General Aniline & Film Corp.,  
435 Hudson St., N. Y.  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey  
City 2, N. J.  
Oronite Chem. Co., 200 Bush St., San Francisco  
Procter & Gamble Dist. Co., Cincinnati  
Sterwin Chemicals, Inc., 1450 Broadway, N. Y. 18

**DETERGENTS, SYNTHETIC (Cationic), general**

American Alcolac Corp., 3450 Fairfield Rd., Balto. 26  
American Cyanamid Co., Industrial Chems. Div., 30  
Rockefeller Plaza, N. Y. 20  
Antara Chemicals, General Aniline & Film Corp.,  
435 Hudson St., N. Y.  
Armour Chemical Div., Chicago 9  
Atlas Powder Co., Wilmington 99, Dela.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
B. F. Goodrich Chem. Co., 324 Rose Bldg., Cleveland 15  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Knapp Prods., Inc., Lodi, N. J.  
M. Michel & Co., 90 Broad St., N. Y. 4  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey  
City 2, N. J.  
Oronite Chem. Co., 200 Bush St., San Francisco  
Procter & Gamble Dist. Co., Cincinnati  
Refined Prods., Inc., Lyndhurst N. J.  
Rohm & Haas Co., Washington Square, Phila. 5  
Treplow Prods., Inc., 59 Camden St., Paterson, N. J.  
Warwick Chemical Co., 10-10 44th Ave., Long Island  
City, N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14

**DETERGENTS, SYNTHETIC (Finished), liquid, non-sudsing**

Antara Chemicals, General Aniline & Film Corp.,  
435 Hudson St., N. Y.  
Armour Industrial Soap Dept., Chicago 9  
Baird & McGuire, Inc., Holbrook, Mass.  
Chem. Service of Balto., Howard & West Sts., Balto. 30  
Deko Chem. Co., 764 N. Hawthorne Blvd., Hawthorne,  
Calif.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Essential Chems. Co., 2200 N. 32 St., Milwaukee 8  
Finetex, Inc., P. O. 414, Pompton Plains, N. J.  
Frontier Chem. Prods., Inc., 119 E. Soper St., St.  
Louis 11  
Fuld Bros. Inc., 702 S. Wolfe St., Baltimore 31  
Hewitt Soap Co., 333 Linden Ave., Dayton 3, O.  
Hysan Products Co., 932 W. 38th Pl., Chicago  
Marchon Prods., Ltd., Whitehaven, Cumberland, Eng.  
Moss Soap Co., Pinellas Int'l Airport, St. Petersburg,  
Fla.  
Procter & Gamble Dist. Co., Cincinnati  
Reily Chem. Co., Industrial Prods. Div., P. O. Box 98,  
New Orleans, La.  
Sanders Chem. Co., 2205 N. American St., Phila. 33  
Science Industries, 1509 N. Broadway Ave., St. Louis  
E. B. Snyder Laboratories, 4450 Leiper St., Phila. 24  
M. D. Stetson Co., 64 E. Brookline St., Boston 15  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Ultra Chem. Wks., 2 Wood St., Paterson N. J.

**DETERGENTS, SYNTHETIC (Finished), liquid, sudsing**

Antara Chemicals, General Aniline & Film Corp.,  
435 Hudson St., N. Y.  
Armour Industrial Soap Dept., Chicago 9  
Baird & McGuire, Inc., Holbrook, Mass.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chic. 8  
Chem Service of Balto., Howard & West Sts., Balto.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10

# FINETEX



## SULPHONATED PRODUCTS DETERGENTS

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75% SULPHONATED CASTOR OIL  
SULPHONATED PEANUT OIL  
SULPHONATED OLIVE OIL  
SULPHONATED SPERM OIL  
SULPHONATED RED OIL  
SULPHONATED SOYA BEAN OIL  
SULPHONATED LINSEED OIL

*High and Low Sulphonations  
Contract Sulphonations  
Emulsifying Agents*

## RUETERG

A classification of a series of  
Alkyl Aryl Sulphonates

**RUETERG 97S** — Liquid, 88% active. High foam stability. Excellent detergency. 1% free oil — 2% water.

**RUETERG 57M** — Liquid, 42.2% active. Excellent resistance to hard water.

**RUETERG 40T** — Low cloud point, light color. 27% active.

**RUETERG SULPHONIC ACID** — Concentrated Alkyl Sulphonic Acid, 70% active. Raw material for producing liquid detergents.

**RUETERG 40U** — Liquid, 26% active. High cloud point. Low price.

Write or phone for technical bulletins on each or any of these products. Special bulletin issued on *Emulsifying With RUETERG 97S*, including formulations for solvents, animal, vegetable and mineral oils for general cleaners and others. Price quotations submitted upon request.

## FINETEX INCORPORATED

*Manufacturing Chemists*

**P. O. Box 414  
Pompton Plains, N. J.**



## Most complete line of ALCOHOL SULFATES

Alcohol sulfates have always been considered the *quality* products among all surface active agents. American Alcolac's line of alcohol sulfates is the most complete available. Some of these are of the quality required in cosmetic formulations, while others are produced at prices which make them practical and attractive for industrial uses. The major classifications are shown in the box to the right. Each classification contains several products, each with distinctive properties which make it better suited for specific applications.

**LET US HELP YOU**—Product information booklets giving detailed descriptions of all American Alcolac products are yours for the asking. Phone or write to our nearest office. Our experienced technical representatives will see that you receive the information you need, and will gladly send you working samples.

If you so desire, our technical staff will supply you with a number of tested and proved formulas, and will offer constructive assistance in the early stages of your product development. There is no obligation.

### American Alcolac Corporation

#### Main office and plant:

3440 Fairfield Road, Baltimore 26, Md.  
CURtis 7-2600

#### Sales offices:

350 Fifth Avenue, New York 1, N.Y.  
6 North Michigan Avenue, Chicago 2, Ill.

American Alcolac Corporation  
935 Victoria Square  
Montreal, Que., Canada

## SIPON

The Sipons are a cosmetic grade of alcohol sulfates designed for shampoos, hand cleaners and creams. They are offered in many types of fatty alcohols and cations, including sodium, magnesium, ammonium, tri- and diethanolamine, potassium, and calcium. Due to the variety in compositions, the Sipons are available in a variety of properties, including variations in cloud point, pH and viscosity. American Alcolac offers a complete range of properties in alcohol sulfates for the cosmetic industry.

## SIPEX

Fatty alcohol sulfates, in a choice of metal and amine salts, are offered in liquid, paste or powder form suitable for many uses in household formulations as well as for industrial applications. All forms of Sipex are unusually stable to oxidation, have a mild, pleasant odor and have excellent color stability. Their foaming, wetting and detergent properties are excellent.

## SIPONICS

The Siponics are a new series of nonionic surface active agents. They have many applications in the chemical processing, textile and metal industries, and are used in formulated detergents for specialized uses. Siponics are available from American Alcolac in the following general types:

SIPONIC AP—Alkylphenol ether  
SIPONIC BC—Aliphatic ether  
SIPONIC TO—Tall oil ester

### PURE LAURYL ALCOHOL SULFATE

Through a new and exclusive process, American Alcolac now offers this unusually pure form. The purity makes the lauryl alcohol sulfate particularly suitable for quality dentifrices where taste is important. Interested manufacturers are invited to request full information about this new product.

**CETYL ALCOHOL** This product is available in commercial quantities in both the cosmetic and technical grades. It is produced to meet American Alcolac's high standards of quality in all of its products.



**DETERGENTS, SYNTHETIC (Finished) Liquid, Sudsing (Contd).**

Essential Chems. Co., 2200 N. 32 St., Milwaukee 8  
Finetex, Inc., P. O. Box 414, Pompton Plains, N. J.  
Frontier Chem. Products Inc., 119 E. Soper St., St. Louis 11  
Fuld Bros. Inc., 702 S. Wolfe St., Baltimore  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.  
Hewitt Soap Co., 333 Linden Ave., Dayton, O.  
Eagle Soap Corp., 970 E. Tipton St., Huntington, Ind.  
Hysan Products Co., 932 W. 38th Pl., Chicago  
Kearny Mfg. Co., Kearny, N. J.  
Magna-Krom Prods., 108 Sumner Ave., Vandergrift, Pa.  
Marchon Prods., Ltd., Whitehaven, Cumberland, Eng.  
Maywood Chem. Wks. 100 W. Hunter Ave., Maywood, N. J.  
M. Michel & Co., 90 Broad St., N. Y. 4  
Mona Industries, Inc., Paterson 4, N. J.  
Moss Soap Co., Pinellas Int'l. Airport, St. Petersburg, Fla.  
National Aniline Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
National Milling & Chem. Co., 4601 Nixon St., Phila.  
National Sanitary Products Co., 3944 Olive St., St. Louis  
Ninol Laboratories, Inc., 1719 S. Clinton St., Chicago 16  
Procter & Gamble Dist. Co., Cincinnati  
Refined Prods., Inc., Lyndhurst, N. J.  
Reilly Chemical Co., Industrial Prods. Div., P. O. Box 98, New Orleans, La.  
Sanders Chem. Co., 2205 N. American St., Phila. 33  
Science Industries, 1509 N. Broadway Ave., St. Louis  
E. B. Snyder Laboratories, 4450 Leiper St., Phila. 24  
Geo. Stearns Chem. Corp. 4200 Mendota St., Madison, Wisc.  
Stepan Chem. Co., 20 N. Wacker Dr., Chicago  
M. D. Stetson Co., 64 E. Brookline St., Boston  
Swift & Co., Chicago 9  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Warwick Chem. Co., 10-10 44 Ave., Long Is. City, N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

**DETERGENTS, SYNTHETIC (Finished), powder non-sudsing**

Antara Chemicals, General Aniline & Film Corp., 435 Hudson St., N. Y.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Colgate-Palmolive Co., 105 Hudson St., Jersey City N.J.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Essential Chems. Co., 2200 N. 32 St., Milwaukee 8  
Frontier Chem. Products, Inc., 119 E. Soper St., St. Louis 11  
Fuld Bros. 702 S. Wolfe St., Baltimore  
Hysan Products Co., 932 W. 38th Pl. Chicago  
Marchon Prods., Ltd., Whitehaven, Cumberland, Eng.  
Monsanto Chem. Co. St. Louis 4  
National Milling & Chem. Co., 4601 Nixon St., Phila.  
Procter & Gamble Dist. Co., Cincinnati  
Science Industries, 1950 N. Broadway Ave., St. Louis  
Geo. Stearns Chem. Corp., 4200 S. Mendota St., Madison, Wisc.  
M. D. Stetson Co., 64 E. Brookline St., Boston, Mass.  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Virginia-Carolina Chem. Corp., 401 E. Main St., Richmond, Va.

**DETERGENTS, SYNTHETIC (Finished), powder, sudsing**

Antara Chemicals, General Aniline & Film Corp., 435 Hudson St., N. Y.  
Armour Industrial Soap Dept., Chicago 9  
Chicago Sanitary Prod. Co., 3100 E. Throop St., Chic. 8  
Chem. Service of Balto., Howard & West Sts., Balto.  
Colgate-Palmolive Co., 105 Hudson St., Jersey City, N.J.  
Continental Oil Co., 630 5th Ave., N. Y. 20  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Essential Chemicals Co., 2200 N. 32 St., Milwaukee 8  
Frontier Chem. Prods., Inc., 119 E. Soper St., St. Louis 11

Fuld Bros., 702 S. Wolfe St., Baltimore  
Hewitt Soap Co., 333 Linden Ave., Dayton 3, O.  
Hysan Products Co., 932 W. 38th Pl., Chicago  
Magna-Krom Prods., 108 Sumner Ave., Vandergrift, Pa.  
Marchon Prods. Ltd., Whitehaven, Cumberland, Eng.  
M. Michel & Co., 90 Broad St., N. Y. 4  
Moss Soap Co., Pinellas Int'l. Airport, St. Petersburg, Fla.  
National Aniline Div., Allied Chem & Dye Corp., 40 Rector St., N. Y.  
National Milling & Chem. Co., 4601 Nixon St., Phila.  
National Sanitary Prods. Co., 3944 Olive St., St. Louis 8  
Procter & Gamble Dist. Co., Cincinnati  
Science Industries, 1509 N. Broadway Ave., St. Louis  
Geo. Stearns Chem. Corp., 4200 S. Mendota St., Madison, Wisc.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
M. D. Stetson Co., 64 E. Brookline St., Boston 16  
Swift & Co., Chicago 9  
Tesco Chemicals, Atlanta 4, Ga.  
Virginia-Carolina Chem. Corp., 401 E. Main St., Richmond, Va.  
Welch, Holme & Clarke Co., 439 West St., N. Y. 14

**DETERGENTS, SYNTHETIC (Non-Ionic), acid derivatives**

Armour Chem. Div., Chicago 9  
Atlas Powder Co., Wilmington 99, Dela.  
E. F. Drew & Co., 15 E. 26 St. N. Y. 10  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
Hercules Powder Co., 961 Market St., Wilmington  
Marchon Products, Ltd., Whitehaven, Cumberland, Eng.  
M. Michel & Co., 90 Broad St., N. Y. 4  
Ninol Laboratories, Inc., 1719 S. Clinton St., Chic. 16  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.  
Van Dyk & Co., Belleville 9, N. J.  
Virginia-Carolina Chem. Corp., 401 E. Main St., Richmond, Va.

**DETERGENTS, SYNTHETIC (Non-Ionic), alcohols and thiols**

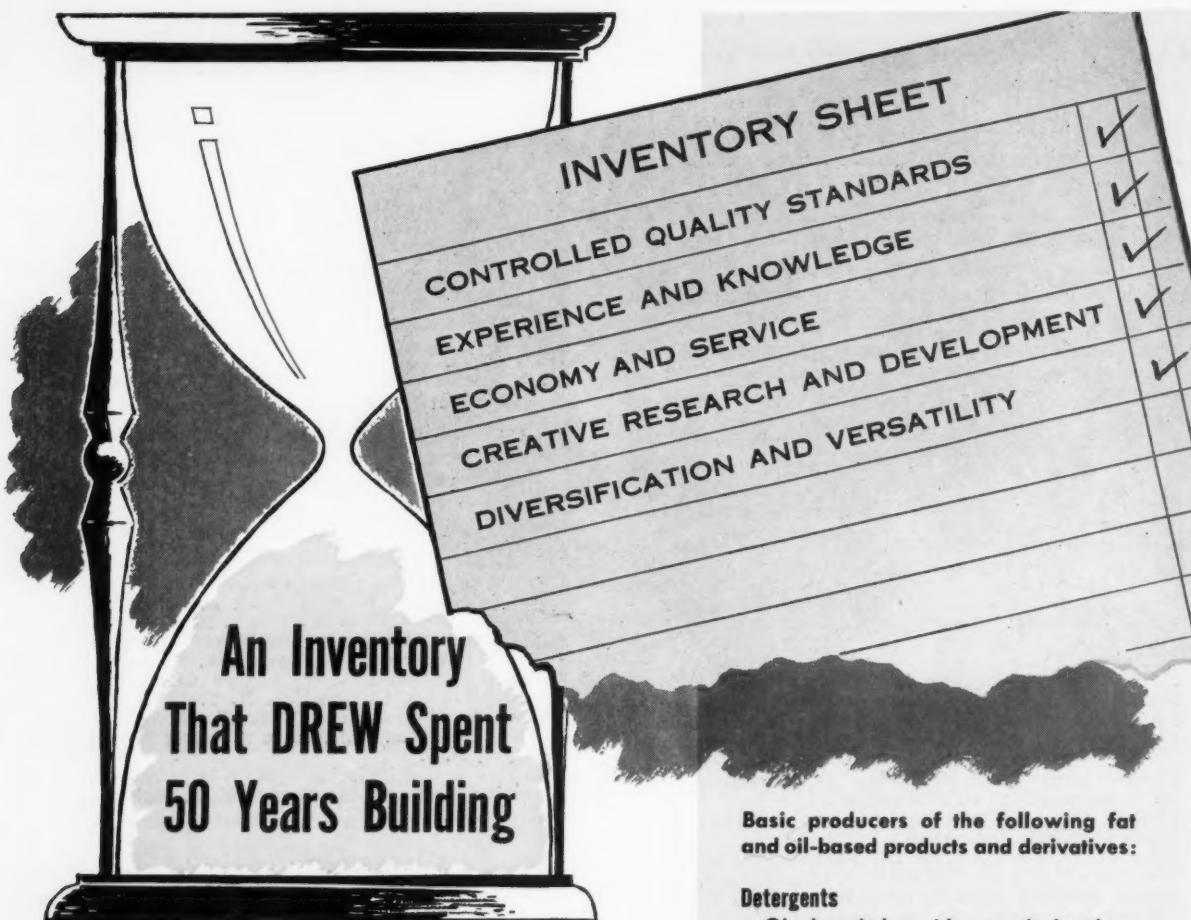
Aceto Chem. Co., 40-40 Lawrence St., Flushing 54, N. Y.  
Air Reduction Chem. Co., 60 E. 42 St. N. Y. 17  
Atlas Powder Co., Wilmington 99, Dela.  
Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17  
E. F. Drew & Co., 15 E. 26 St. N. Y. 10  
Hercules Powder Co., 961 King St., Wilmington  
Marchon Prods., Ltd., Whitehaven, Cumberland, Eng.  
M. Michel & Co. 90 Broad St., N. Y. 4  
Monsanto Chem. Co., St. Louis 4  
Procter & Gamble Dist. Co., Cincinnati  
Sharples Chemicals, Inc., 1100 Widener Bldg., Phila. 7  
Stepan Chem. Co., 20 N. Wacker Dr., Chicago

**DETERGENTS, SYNTHETIC (Non-Ionic), phenols, naphthols and alkyl phenols**

American Alcolac Corp., 3440 Fairfield Rd., Baltimore  
Antara Chemicals, General Aniline & Film Corp., 435 Hudson St., N. Y.  
Atlas Powder Co., Wilmington, Dela.  
Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17  
E. F. Drew & Co., 15 E. 26 St. N. Y. 10  
Hercules Powder Co., 961 Market St., Wilmington, Del.  
Jefferson Chemical Co., 260 Madison Ave., N. Y. 16  
Ninol Laboratories, Inc., 1719 S. Clinton St., Chicago 16  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.  
Oronite Chem. Co., 200 Bush St., San Francisco  
Sharples Chemicals, Inc., 1100 Widener Bldg., Phila.  
Stepan Chemical Co., 20 N. Wacker Dr., Chicago  
Warwick Chem. Co., 10-10 44 Ave., Long Is. City, N. Y.

**DETERGENTS, SYNTHETIC (Non-Ionic), amides and amines**

American Alcolac Corp., 3440 Fairfield Rd., Baltimore  
Armour Chem. Div., Chicago 9  
Atlas Powder Co., Wilmington 99, Dela.  
E. F. Drew & Co., 15 E. 26 St. N. Y. 10  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
B. F. Goodrich Chem. Co., 324 Rose Bldg., Cleveland 15



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## DETERGENTS, SYNTHETIC (Non-ionic) Amides and Amines (Contd.)

Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Kearny Mfg. Co., Kearny, N. J.  
Knapp Prods., Inc., Lodi, N. J.  
Marchon Prods., Ltd., Whitehaven, Cumberland, Eng.  
M. Michel & Co. 90 Broad St., N. Y. 4  
Miranol Chemical Co., 277 Coit St., Irvington, N. J.  
Mona Industries, Inc., Paterson 4, N. J.  
Ninol Laboratories, Inc., 1719 S. Clinton St., Chicago, Ill.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.  
Procter & Gamble Dist. Co., Cincinnati  
Refined Products, Inc., Lyndhurst, N. J.  
Stepan Chem. Co., 20 N. Wacker Dr., Chicago  
Swift & Co., Chicago 9  
Trepow Products, Inc., 59 Camden St., Paterson, N. J.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Van Dyk & Co., Belleville 9, N. J.  
Warwick Chem. Co., 10-10 44 Ave., Long Is. City, N. Y.  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.  
G. S. Ziegler & Co., 99 Church St., N. Y. 7

## DETERGENTS, SYNTHETIC (Non-Ionic), miscellaneous types

Air Reduction Chem. Co., 60 E. 42 St., N. Y. 17  
American Alcolac Corp., 3440 Fairfield Rd., Baltimore  
Atlas Powder Co., Wilmington 99, Del.  
Blockson Chem. Co., Joliet, Ill.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Hercules Powder Co., 961 Market St., Wilmington  
Knapp Products, Inc., Lodi, N. J.  
Marchon Prods., Ltd., Whitehaven, Cumberland, Eng.  
M. Michel & Co. 90 Broad St., N. Y. 4  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
Monsanto Chem. Co., St. Louis 4  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.  
Rohm & Haas Co., Washington Square, Phila. 5  
Procter & Gamble Dist. Co., Cincinnati  
Sharples Chemicals, Inc., 1100 Widener Bldg., Phila. 7  
Van Dyk & Co., Belleville 9, N. J.  
Victor Chem. Wks., 155 N. Wacker Dr., Chicago 6  
Warwick Chem. Co., 10-10 44 Ave., Long Is. City, N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

## DIATOMACEOUS EARTH

Dicalite Div., 612 S. Flower St., Los Angeles  
Innis, Speiden & Co., 420 Lexington Ave., N. Y.  
Johns-Manville Corp., 22 E. 40 St., N. Y. 16  
Whittaker Clark & Daniels, 260 W. Broadway, N. Y.

## DIELDRIN

Shell Chemical Corp., 50 W. 50 St., N. Y.

## DIELDRIN FORMULATIONS

Agricultural Chemicals, Inc., Greenville, Miss.  
Atlas Chem. Corp., Waynesboro, Ga.  
California Spray-Chemical Corp., Richmond, Calif.  
Carolina Chemicals, Inc., West Columbia, S. C.  
Chapman Chemical Co., 707 Dermon Bldg., Memphis, Tenn.  
Chipman Chemical Co., Bound Brook, N. J.  
Coahoma Chemicals, Inc., Beacon, N. Y.  
Crop-Saver Chem. Co., 3511 Potomac Ave., Chicago  
Douglas Chem. Co., 620 E. 16 Ave., North Kan. City, Mo.  
Flag Sulphur & Chem. Co., Tampa, Fla.  
Florida Agricultural Supply Co., P. O. 658, Jacksonville, Fla.  
Geigy Agricultural Chemicals, 89 Barclay St., N. Y.  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
McLaughlin, Gormley King Co., 1715 5th St., Minneapolis, Minn.  
Naco Fertilizer Co., Charleston, S. C.  
S. P. Penick & Co., 50 Church St., N. Y. 8

Pittsburgh Coke & Chem. Co., 2000 Grant Bldg., Pittsburgh  
Plainsman Supply Co., Plainview, Tex.  
John Powell Div., 1 Park Ave., N. Y. 16  
Reasor-Hill Corp., Jacksonville, Ark.  
Shell Chemical Corp., 50 W. 50 St., N. Y. 20  
Stauffer Chem. Co., 380 Madison Ave., N. Y.  
Triangle Chemical Co., Macon, Ga.  
Tyner Petrus Co., W. Monroe, La.  
Virginia-Carolina Chemical Corp., Richmond, Va.  
Woolfolk Chem. Wks., Fort Valley, Ga.  
York Chemical Co., 23 Dean St., Bklyn. 2

## DIES (see Soap Dies)

## DIETHANOLAMINE (see Ethanolamine)

## DIETHYLENE GLYCOL (see under Ethylene Glycols)

## DIFFUSERS (Steam and Air)

Dula Manufacturing Co., 351 Atlantic Ave., Brooklyn  
Electric Sprayit Co., Sheboygan, Wisc.  
Fumeral Co., Racine, Wisc.  
Hydro-Mist Div., Arnold Laboratories, 1515 W. Glenoaks Blvd., Glendale, Calif.

## DILUENTS, INSECTICIDE (see Clays,—also Abrasives and Fillers)

## DINONYL PHENOL

Antara Chemicals, Div. General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
Jefferson Chem. Co., 260 Madison Ave., N. Y. 16

## DIP TUBES, AEROSOL (see Aerosol Dip Tubes)

## DIPHENYL OXIDE (see Aromatic Chemicals)

## DISH WASHING COMPOUND DISPENSERS

Bobrick Dispensers, Inc., 1216 Nostrand Ave., Bklyn., 25  
Chem. Service of Baltimore, Howard & West Sts., Baltimore  
Economics Laboratory, Inc., Guardian Bldg., St. Paul  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Hunnewell Soap Co., 114 W. 2 St., Cincinnati  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Independent Specialties, 152 W. 75th St., Chicago  
J. Chemical Works, 602 W. 37th St., N. Y. 18  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago  
James Varley & Sons, 1200 Switzer Ave., St. Louis 15  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

## DISH WASHING COMPOUNDS (see Cleaning Compounds, Dry)

## DISINFECTANTS, CHLORINATED

Ampion Corp., 4-88 47 Ave., Long Island City, N. Y.  
Analab Labs., 285 Franklin St., Boston 10  
Antara Chemicals, Div. General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
Baird & McGuire, Inc., Holbrook, Mass.  
Banner Chem. Prods. Co., 9 Calumet St., Newark 5, N. J.  
Bilco Chemical Co., 607 DeGraw St., Bklyn.  
Blockson Chem. Co., Joliet, Ill.  
Chemical Compounding Corp., 262 Huron St., Brooklyn  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Churchill Mfg. Co., Galesburg, Ill.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Guardian Chem. Corp., 10-15 43 Ave., Long Island City, N. Y.  
Haag Laboratories, 14000 S. Seeley Ave., Blue Island, Ill.  
Heyden Chemical Corp., 342 Madison Ave., N. Y. 17  
Higley Chemical Co., Dubuque, Iowa

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Pine Oil Disinfectants  
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New Odorless No-Roma  
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Cresol Compounds  
Blue Label Bac-Trol  
Red Label Bac-Trol

Pyrethrum Type Pes-Tox  
Water Miscible DDT No. 25  
Pyrethrum Concentrate No. 1  
Vaporizing Insecticide  
B-Miscible Cleaner  
S-D Cleaner  
Wool Wash  
Dish Washing Compound  
Weed Killers

Motor Wash  
Engine Cleaner  
Creosote Oil  
Closet Chemical  
Red Mite Destroyer  
Cresylic Acid  
Tic-Tox  
Insect Repellent  
Flame Retardant

Cresylic Disinfectants  
Odorless Cutting Oil Disinfectant  
Crude Carbolic Acids  
Larvicides — Fresh and Salt Water  
Colloidal Disinfectants  
Animal Dips  
Wood Preserving Oils  
Degreasers  
Glycols

## **BAIRD & MCGUIRE, INC.**

**HOLBROOK, MASSACHUSETTS**



## DISINFECTANTS, CHLORINATED (Contd.)

R. M. Hollingshead Corp., Camden, N. J.  
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.  
Hunt Mfg. Co., Lisbon Rd., Cleveland  
Hysan Products Co., 932 W. 38th Place, Chicago  
John Wiley Jones Co., Caledonia, N. Y.  
Midland Labs., Dubuque, Iowa  
Monsanto Chemical Co., 1700 E. 2nd St., St. Louis  
National Chemical Laboratories, 825 Lombard St., Phila.  
National Sanitary Prods., 3944 Olive St., St. Louis 8  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
North Coast Soap & Chem. Works, Seattle, Wash.  
Oil Kraft, Inc., 3330 Beekman St., Cincinnati  
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark, N. J.  
Olin-Mathieson Chem. Corp., Baltimore  
Ottawa Chem. Co., 823 Hamilton St., Toledo, O.  
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.  
Peck's Products Co., 610 E. Clarence Ave., St. Louis 15  
Penna. Salt Mfg. Co., Widener Bldg., Phila.  
Puritan Chem. Co., Atlanta, Ga.  
Reily Chemical Co., Industrial Prods. Div., P. O. Box 98, New Orleans, La.  
G. S. Robins & Co., 126 Chouteau Ave., St. Louis 2  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
Sherwin-Williams Co., 601 Canal Rd., Cleveland  
H. V. Smith & Co., 1910 University Ave., St. Paul, Minn.  
L. Sonneborn & Sons, 300 4th Ave., N. Y. 10  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Thompson-Hayward Chemical Co., Kansas City, Mo.  
Trio Chem. Wks., 341 Scholes St., Bklyn.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12  
Victory Chem. Co., 148 Fairmount Ave., Phila.  
James Varley & Sons, 1200 Switzer Ave., St. Louis  
Westvaco Chlor-Alkali Div., Food Machy. & Chem. Corp., 161 E. 42 St., N. Y. 17  
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

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Ampion Corp., 4-88 47 Ave., Long Island City, N. Y.  
A-M-R Chem. Co., 985 E. 35th St., Bklyn. 10  
Analab Labs., 285 Franklin St., Boston 10  
Antiseptol Co., 5524 Northwest Highway, Chicago  
Arnold Laboratories, 1515 W. Glenoaks Ave., Glendale, Calif.  
Baird & McGuire, Inc., Holbrook, Mass.  
Bilco Chemical Co., 607 DeGraw St., Bklyn.  
Boston Chemical Industries, 64 E. Brookline St., Boston  
Brilco Laboratories, 1553 63rd St., Brooklyn 19  
Buckingham Wax Co., Van Dam St. & Borden Ave., L. I. City, N. Y.  
Burkhart-Schier Chem. Co., Chattanooga 2, Tenn.  
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.  
Chemical Compounding Corp., 262 Huron St., Brooklyn  
Chemical Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Click Chemical Corp., Columbus & Carleton Aves., Mt. Vernon, N. Y.  
Clifton Chemical Co., 62 William St., N. Y.  
Wm. Cooper & Nephews, 1909 Clifton Ave., Chicago  
Creco Co., Inc., Creco Bldg., Long Island City, N. Y.  
Crystal Soap & Chem. Co., 6300 State Rd., Phila.  
Davies-Young Soap Co., Dayton, O.  
Eagle Soap Corp., Huntington, Ind.  
Elkay Products Co., 323 W. 16th St., N. Y.  
Fergusson Laboratories, Drexel Bldg., Phila.  
Fine Organics, Inc., 211 E. 19th St., N. Y. 3  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Frontier Chem. Prods., 119 E. Soper St., St. Louis  
Gaylord Chem. Co., 701 Woodswether Rd., Kansas City  
James Good, Inc., 2107 Susquehanna Ave., Phila.  
Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.  
Higley Chem. Co., Dubuque, Iowa  
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 National Chemical Laboratories, 825 Lombard St., Phila.  
 New Jersey Chemical Co., 56 Park Ave., Lyndhurst, N. J.  
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 Old Empire Inc., Mt. Prospect & Verona Ave., Newark,  
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 Rochester Germicide Co., 333 Hollenbeck St., Rochester  
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 John T. Stanley Co., 642 W. 30th St., N. Y.  
 Tesco Chemicals, Inc., Atlanta 5, Ga.  
 Thompson-Hayward Chem. Co., 2915 Southwest Blvd.,  
 Kansas City 8, Mo.  
 Trio Chem. Wks., 341 Scholes St., Bklyn.  
 Tru-Pine Co., 7638 Vincennes Ave., Chicago 20  
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 Continental Car-Na-Var Corp., Brazil, Ind.  
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 Crystal Soap & Chemical Co., 6300 State Rd., Phila.  
 Davies-Young Soap Co., Dayton 1, O.  
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 Fine Organics, Inc., 211 E. 19th St., N. Y.  
 Frontier Chem. Prods., 119 E. Soper St., St. Louis 11  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 James Good, Inc., 2107 Susquehanna Ave., Phila. 25  
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## DISPENSERS, SANITARY NAPKIN (see Vending Machines)

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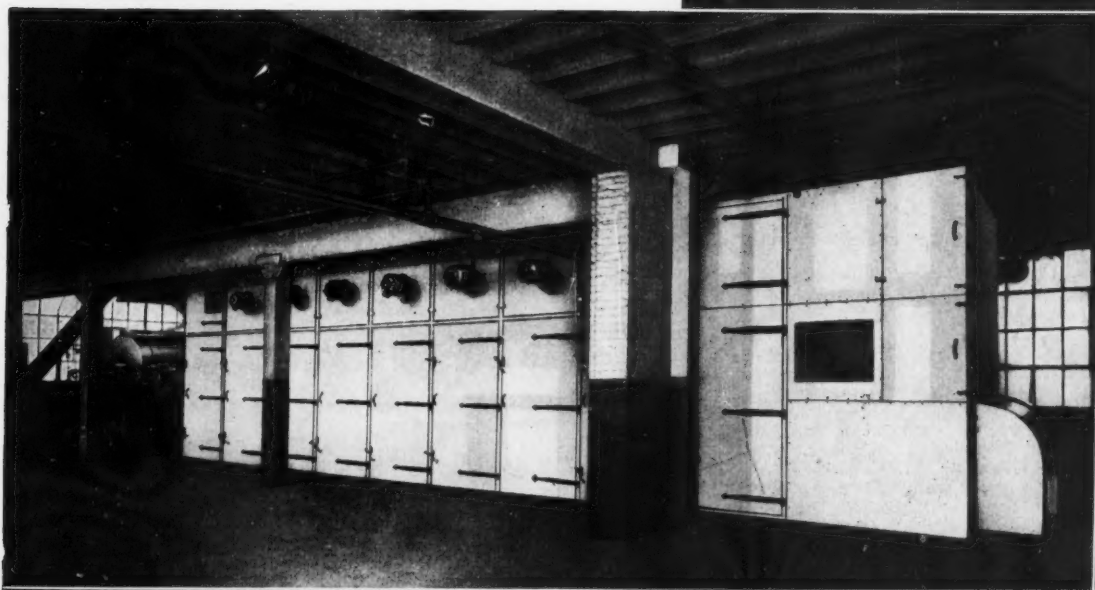
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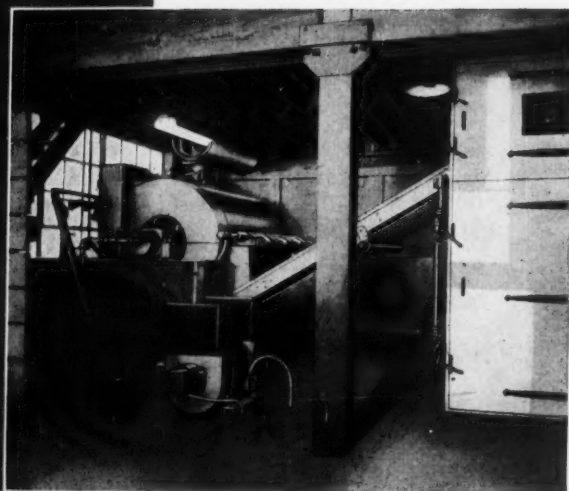
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Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Creco Co., Inc., Creco Bldg., Long Island City, N. Y.  
Elkay Products Co., 323 W. 16th St., N. Y.  
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Gaylord Chem. Co., 701 Woodsweather Rd., Kansas City  
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Higley Chemical Co., Dubuque, Ia.  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Products Co., 932 W. 38th Place, Chicago  
Industrial Labs., 17-19 W. Conway St., Baltimore  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
Midland Labs., Dubuque, Iowa  
Murro Chem. Co., Portsmouth, Va.  
North Coast Chem. & Soap Wks., Seattle, Wash.  
Pennsylvania Salt Mfg. Co., Widener Bldg., Phila.  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
Science Industries, 1509 N. Broadway, St. Louis  
S. & S. Soap Co., 815 E. 135 St., N. Y. 54  
John Sunshine Chem. Co., 604 W. Lake St., Chicago  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

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Fuld Bros., 702 S. Wolfe St., Baltimore  
Hysan Products Co., 932 W. 38th Place, Chicago  
Rochester Germicide Co., 333 Hollenbeck St., Rochester 5, N. Y.  
Geo. B. Robbins Dis. Co., 42 Charlton St., Boston  
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.  
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Fibre Drum Co., 20 N. Wacker Dr., Chicago 6  
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Jones & Laughlin Steel Corp., 405 Lexington Av., N. Y. 17  
Manion Steel Barrel Co., Rouseville, Pa.  
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National Steel Container Corp., Chicago 38  
Nesco, Inc., 270 N. 12th St., Milwaukee 1  
Rheem Mfg. Co., 7600 S. Kedzie Ave., Chicago  
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Essential Chem. Co., 2200 N. 32nd St., Milwaukee 8  
Fuld Bros., 702 S. Wolfe St., Baltimore  
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Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.  
Harley Soap Co., Pierce and Orthodox Sts., Phila.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
H. Kohnstamm & Co., 91 Park Pl., N. Y.  
Los Angeles Soap Co., 617 E. 1st St., Los Angeles  
M. Michel & Co., 90 Broad St., N. Y. 4  
Midland Chem. Labs., Dubuque, Ia.  
Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.  
Nopco Chemical Co., Harrison, N. J.  
North Coast Chem. & Soap Wks., Seattle, Wash.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Pennsylvania Salt Mfg. Co., Widener Bldg., Phila. 7  
Puritan Co., 573 Lyell Ave., Rochester, N. Y.  
Riverside Mfg. Co., 4919 Conn St., St. Louis  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Geo. Stearns Chem. Corp., 4200 S. Mendota St., Madison, Wisc.  
Swift & Co., Chicago  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Trio Chemical Wks., 341 Scholes St., Bklyn. 6  
Ultra Chem. Wks., Inc., 2 Wood St., Paterson, N. J.  
U. S. Sanitary Specialties Corp., 1001 S. California Blvd., Chicago 12  
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Industrial Process Engineers, 8 Lister Ave., Newark 5, N. J.  
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Lamson Corporation, Syracuse, New York  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used)  
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## DUST PANS

Franklin Metal Prods. Co., 1500 S. Wabash Ave., Chicago  
Warren Haviland Corp., 1810 Chouteau Ave., St. Louis 3  
F. H. Lawson Co., 852 Evans St., Cincinnati  
Palmer Fixture Co., Waukesha, Wisc.  
Shore Metal Products, 2881 E. Pico Blvd., Los Angeles 23  
White Mop Wringer Co., Fultonville, N. Y.

## DUSTERS, for insecticide powders

Central Rubber Products Co., 823 Broadway, N. Y.  
R. E. Chapin Mfg. Wks., Batavia, N. Y.  
Dobbins Div.—Chamberlain Corp., Waterloo, Iowa  
Feeny Mfg. Co., Muncie, Ind.  
Getz Exterminators, Inc., 2234 Olive St., St. Louis 3  
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago  
Lowell Mfg. Co., North Pier Terminal, Chicago  
R. C. Can Co., 9430 Page Blvd., St. Louis  
Root-Lowell Corp., 445 N. Lake Shore Dr., Chicago  
Scollay Sprinkler & Bulb Co., Box 46, Sta. F, Brooklyn

## DUSTERS (Wool, Feather, Cotton, Yarn, Etc., for Cleaning)

American Standard Mfg. Co., 2509 S. Green St., Chicago  
Golden Star Polish Mfg. Co., 2901 E. 13th St., Kansas City, Mo.  
Illinois Duster & Brush Co., 1944 Webster Ave., Chicago  
Parlee Co., 310 E. St. Clair, Indianapolis, Ind.  
P. R. Schuman Duster Co., 65 E. 53rd St., Brooklyn  
Tu Way Prods. Co., 325 Lafayette Bldg., Detroit  
Zelinkoff Co., 345-47 N. Main St., Wichita, Kan.

## EMULSIFIER INTERMEDIATES

Archer-Daniels-Midland Co., Minneapolis, Minn.  
Armour Chemical Division, 1355 W. 31st St., Chicago  
Atlas Powder Co., Wilmington 99, Dela.  
Antara Chemicals, Div. General Aniline & Film Corp., 435 Hudson St., N. Y.  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y. 17

Dow Chemical Co., Midland, Mich.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Emulsol Chemical Corp., 50 E. Madison St., Chicago  
Griffin Chemical Co., 1000 16th St., San Francisco 7  
Heyden Chemical Corp., 342 Madison Ave., N.Y. 17, N.Y.  
Jefferson Chemical Co., 260 Madison Ave., N.Y. 17, N.Y.  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh, Pa.  
Marchon Prods., Whitehaven, Cumberland, England  
M. Michel & Co., 90 Broad St., N. Y. 4  
Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.  
Ninol Laboratories, 1719 S. Clinton St., Chicago  
Sharples Chemicals, Inc., Widener Bldg., Phila.  
Swift & Co., Chicago  
Van Dyk & Co., Belleville 9, N. J.  
Victor Chem. Wks., 155 N. Wacker Dr., Chicago 6  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

## EMULSIFYING AGENTS

Aceto Chem. Co., 40-40 Lawrence St., Flushing, N. Y.  
Advance Solvents & Chemical Corp., 245 Fifth Avenue, New York 16, New York  
American Alcolac Corp., 3440 Fairfield Rd., Balto.  
American Colloid Co., Merchandise Mart Plaza, Chicago  
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Antara Chemicals, Div. General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
Archer-Daniels-Midland Co., Minneapolis 2  
Armour Industrial Soap Dept., Chicago 9  
Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Atlas Powder Co., Wilmington, Del.  
California Spray-Chemical Corp., Richmond, Calif.  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
Carlisle Chemical Works, Reading, O.  
Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago  
Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
Continental Oil Co., 30 Rockefeller Plaza, N. Y.  
Dow Chem. Co., Midland, Mich.  
E. F. Drew & Co., 15 E. 26 St. N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
El Dorado Oil Wks., Box 599, Oakland, Calif.  
Emery Industries, Inc., 4300 Carew Tower, Cincinnati  
Emulsol Chemical Corp., 59 E. Madison St., Chicago  
Enjay Co., 15 W. 51st St., N. Y. 19  
Fine Organics, Inc., 211 E. 19th St., N. Y. 3  
Finetex, Inc., P. O. Box 414, Pompton Plains, N. J.  
Geigy Industrial Chemicals, 89 Barclay St., N. Y.  
General Biochemicals, Inc., Chagrin Falls, O.  
General Mills, Inc., 400 2nd Ave., South, Minneapolis 1  
Glyco Prods. Co., 350 5th Ave., N. Y.  
B. F. Goodrich Chem. Co., Cleveland 15  
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.  
Griffin Chem. Co., 1000—16th St., San Francisco  
Harchem Div., Wallace & Tiernan, Inc., Box 178, Newark, N. J.  
Jefferson Chem. Co., 260 Madison Ave., N. Y. 16  
Hercules Powder Co., 961 Market St., Wilmington, Dela.  
Hysan Products Co., 932 W. 38th Pl., Chicago  
Kearny Mfg. Co., Kearny, N. J.  
Knapp Bros., Inc., Lodi, N. J.  
N. I. Malmstrom & Co., 147 Lombardy St., Bklyn.  
Marathon Corp., Rothschild, Wisc.  
Marchon Prods. Ltd., Whitehaven, Cumberland, Eng.  
M. Michel & Co., 90 Broad St., N. Y.  
Miranol Chemical Co., 277 Coit St., Irvington, N. J.  
Maywood Chemical Works, Maywood, N. J.  
Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.  
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
National Aniline Div., Allied Dye & Chem. Corp., 40 Rector St., N. Y.  
National Southern Products, Tuscaloosa, Ala.  
Nopco Chemical Co., First & Essex Sts., Harrison, N. J.  
Ninol Laboratories, 1719 S. Clinton St., Chicago 16  
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Rohm & Haas Co., 222 W. Washington Sq., Phila.  
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Sandoz Chemical Works, Inc., 61 Van Dam St., N. Y.,  
Seaplant Chem. Corp., 63 David St., New Bedford, Mass.  
Sharples Chemicals, Inc., Widener Bldg., Phila.  
L. Sonneborn Sons, 300—4th Ave., N. Y.  
Stepan Chemical Co., 20 N. Wacker Dr., Chicago  
Swift & Co., Chicago  
Synthetic Chemicals, Inc., Paterson 4, N. J.  
Tennessee Corp., 619 Grant Bldg., Atlanta, Ga.  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City 8, Mo.  
Treplow Prods. Inc., 59 Camden St., Paterson, N. J.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Van Dyk & Co., Belleville, N. J.  
R. T. Vanderbilt Co., 230 Park Ave., N. Y.  
Victor Chemical Works, 155 N. Wacker Dr., Chicago 6  
Warwick Chemical Co., 10-10 44th Ave., L. I. C., N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Woburn Chemical Corp., Harrison, N. J.  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

ENGINEERING, (see Soap & Detergent Plant Engineering)

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American Aromatics, Inc., 24 E. 21 St., N. Y. 10  
Aroscent, Inc., Main & Chestnut Sts., Dobbs Ferry, N. Y.  
Berje Chemical Prod. Co., 350 West Broadway, N.Y.C.  
W. J. Bush & Co., 19 W. 44th St., N. Y.  
Camilli, Albert & Laloue, 14 E. 48th St., N. Y. 17  
Ph. Chaleyver, Inc., 160 E. 56th St., N. Y.  
Charabot & Co., 114 E. 25th St., N. Y.  
Antoine Chiris Co., Inc., 212 E. 23rd St., N. Y.  
Consumers Import Co., 350 Fifth Ave., N. Y.  
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Delaire, Inc., 114 E. 32nd St., N. Y.  
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Florasynt Laboratories, 900 Van Nest Ave., N. Y.  
Benj. French, Inc., 160—5th Ave., N. Y.  
Fritzsche Brothers, Inc., 76 Ninth Ave., N. Y.  
Givaudan-Delawanna, Inc., 60 Wall St., N. Y.  
Gunning & Gunning, 601 W. 26th St., N. Y.  
D. W. Hutchinson & Co., 700 S. Columbus Ave., Mt. Vernon, N. Y.  
Lautier Fils, 321 Fifth Ave., N. Y.  
Geo. Lueders & Co., 427 Washington St., N. Y.  
Magnus, Mabree & Reynard, 16 Desbrosses St., N. Y.  
A. Maschmeijer, Jr., Div., 630 5th Ave., N. Y.  
Neumann-Buslee & Wolfe, 5800 Northwest Highway, Chicago  
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Noville Essential Oil Co., 1312 5th St., N. Bergen, N. J.  
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Polak's Frutal Wks., 33 Sprague Ave., Middletown, New York  
Polak & Schwartz, Inc., 667 Washington St., N. Y.  
Polarome Co., 73 Sullivan St., N. Y. C.  
Reynaud, Ltd., 355 W. 52nd St., N. Y. 19  
F. Ritter & Co., 4001 Goodwin Ave., Los Angeles 39  
P. Robertet, Inc., 125 E. 23rd St., N. Y. 10  
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Schimmel & Co., 601 W. 26th St., N. Y.  
Edwin Seebach Co., 912 Broadway, N. Y.  
Seeley & Co., Nyack, N. Y.  
Southwest Cedar Oil Co., Box 1939, San Antonio, Tex.  
Synfleur Scientific Labs., Monticello, N. Y.  
A. M. Todd Co., Kalamazoo, Mich.  
Tombarel Products Corp., 725 Broadway, N. Y. 3  
Ungerer & Co., 161 Avenue of Americas  
Van Ameringen-Haebler, Inc., 521 W. 57th St., N. Y. 19  
Van Dyk & Co., Belleville, N. J.  
Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.  
Verona Chem. Co., 26 Verona Ave., Newark, N. J.

#### ETHANOLAMINES (see Triethanolamine)

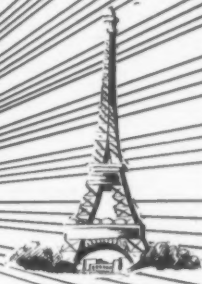
#### ETHERS

Amsco Solvents & Chemicals Co., 4619 Reading Road, Cincinnati  
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Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago  
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Enjay Co., 15 W. 51st St., N. Y.  
General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
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Mallinckrodt Chem. Wks., 3600 N. 2nd St., St. Louis  
Merck & Co., Rahway, N. J.  
Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis  
Ohio Solvents & Chemicals Co., 3470 W. 140 St., Cleveland  
Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
Shell Chem. Co., 50 W. 50th St., N. Y.  
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Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit  
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Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago  
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Harchem Div., Wallace & Tiernan, Inc., Box 178,  
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Spencer Kellogg & Sons, Buffalo, N. Y.  
Lever Bros. Co., 390 Park Ave., N. Y.  
N. I. Malmstrom & Co., 147 Lombardy St., Brooklyn  
National Southern Products, Tuscaloosa, Ala.  
Pennotex Oil Corp., 29 Broadway, N. Y. 6  
Procter & Gamble Dist. Co., Cincinnati, O.  
Robinson Wagner Co., 110 E. 42nd St., N. Y.  
Rosenthal Berrow Co., 23 E. 26th St., N. Y.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Trendex Div., The Humko Co., P. O. Box 4607, Mem-  
phis, Tenn.  
Union Bag & Paper Corp., 233 Broadway, N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Woburn Chemical Corp., Harrison, N. J.  
G. S. Ziegler & Co., 99 Church St., N. Y. 17

## FATTY ACID ESTERS

Antara Chemicals, Div., General Aniline & Film Corp.,  
435 Hudson St., N. Y. 14  
Archer-Daniels-Midland Co., Minneapolis 2  
Atlas Powder Co., Wilmington, Del.  
Colgate-Palmolive Co., 105 Hudson St., Jersey City, N.J.  
E. F. Drew & Co., 10 E. 26 St., N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Emery Industries, Carew Tower, Cincinnati 2  
El Dorado Oil Works, P. O. Box 599, Oakland, Calif.  
Emulsol Chemical Corp., 59 E. Madison St., Chicago 3  
Geigy Industrial Chemicals, 89 Barclay St., N. Y.  
General Mills, 400 2nd Ave., South, Minneapolis 1  
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y. 18  
Glyco Prods. Co., 350 Fifth Ave., N. Y. C.  
Knapp Prods., Inc., Lodi, N. J.  
Marchon Prods. Ltd., Whitehaven, Cumberland, England  
National Southern Products, Tuscaloosa, Ala.  
Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
Robinson, Wagner Co., 110 E. 42nd St., N. Y. 17  
Onyx Oil & Chem. Co., Warren & Norris Sts.,  
Jersey City, N. J.  
Pennotex Oil Corp., 29 Broadway, N. Y. 6  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Van Dyk & Co., Belleville 9, N. J.  
Woburn Chemical Corp., Kearny, N. J.  
Jacques Wolfe & Co., 350 Lexington Ave., Passaic, N. J.

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Blaw-Knox Co., Chicago  
William Garrigue & Co., 9 S. Clinton St., Chicago  
Alan Porter Lee Associates, 18 South St., Morristown,  
N. J.  
Project Construction Corp., 39 Broadway, N. Y. 6  
Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

## FATTY ALCOHOLS

Aceto Chem. Co., 40-40 Lawrence St., Flushing, N. Y.  
American Alcolac Corp., 3440 Fairfield Rd., Baltimore  
Antara Chemicals, Div. General Aniline & Film Corp.,  
435 Hudson St., N. Y.  
Archer-Daniels-Midland Co., Minneapolis 2  
Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
N. I. Malmstrom & Co., 147 Lombardy St., Bklyn., N. Y.  
Marchon Prods. Ltd., Whitehaven, Cumberland, England  
M. Michel & Co., 90 Broad St., N. Y.  
Stepan Chemical Co., 20 N. Wacker Drive, Chicago  
Robinson Wagner Co., 110 E. 42nd St., N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Woburn Chemical Corp., Harrison, N. J.

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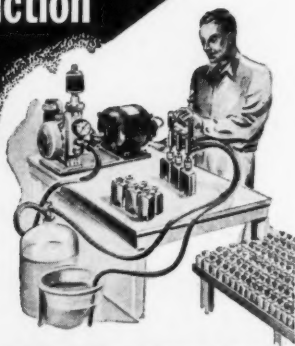


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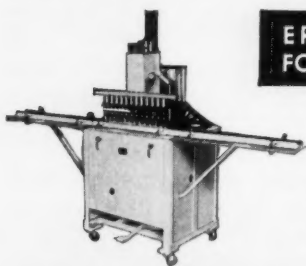
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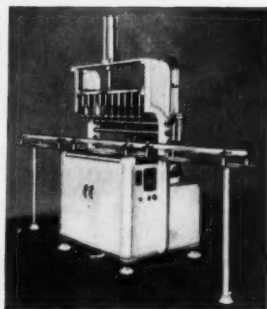


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Emery Industries, Inc., Carew Tower, Cincinnati  
Indoil Chemical Co., 910 S. Michigan Ave., Chicago 80  
Oronite Chem. Co., 200 Bush St., San Francisco  
Pennsylvania Refining Co., Butler, Pa.  
L. Sonneborn Sons, 300—4th Ave., N. Y.

### FILLERS (Pumice, Silica, Feldspar, Bentonite, Clays, Marble Flour, etc.)

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American Colloid Co., Merchandise Mart Plaza, Chicago  
Archer-Daniels-Midland Co., Minneapolis, Minn.  
California Industrial Minerals Co., Friant, Calif.  
Carolina Pyrophyllite Co., 10 E. 40th St., N. Y. 16  
Chas. B. Chrystal Co., 53 Park Pl., N. Y.  
Dicalite Div., 612 S. Flower St., Los Angeles, Cal.  
Filtrol Corp., 727 W. 7th St., Los Angeles, Cal.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Innis, Speiden & Co., 4420 Lexington Ave., N. Y.  
Johns-Manville Corp., 22 E. 440th St., N. Y.  
Minerals & Chems. Corp. of America, Metuchen, N. J.  
Pacific Coast Pumice Co., Bishop, Calif.  
Jas. H. Rhodes & Co., 157 W. Hubbard St., Chicago  
Wm. R. Rogers, 72 Park St., Beverly, Mass.  
F. E. Schundler & Co., Inc., 524 Railroad St., Joliet, Ill.  
Southeastern Clay Co., Aiken, S. C.  
Tamms Industries, Inc., 228 N. La Salle St., Chicago  
Universal Marble Products, Thornwood, N. Y.  
United Clay Mines Corp., 101 Oakland St., Trenton, N. J.  
R. T. Vanderbilt Co., 230 Park Ave., N. Y.  
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.  
Witco Chemical Co., 122 E. 42 St., N. Y.

### FILLING MACHINERY (for Liquids, in Small Bottles, Cans, Etc.)

Alsop Engineering Corp., Milldale, Conn.  
Areco Machine Co., 25 W. 43rd St., N. Y.  
F. L. Rurt Co., 571 7th St., San Francisco 3  
Consolidated Packaging Machy. Corp., 1400 West Ave., Buffalo

### FILLING MACHINERY (for Chips, Flakes)

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Consolidated Prods. Co., 59 Garden St., Hoboken, N. J. (Used)  
Exact Weight Scale Co., 944 W. 5th Ave., Columbus, O.  
J. L. Ferguson Co., Joliet, Ill.  
B. F. Gump Co., 1338 S. Cicero Ave., Chicago  
(Bbbs & Bags)  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used)  
Perl Machine Mfg. Co., 72 Jay St., Brooklyn 1  
Pneumatic Scale Corp., North Quincy, Mass.  
Sprout, Waldron & Co., Muncy, Pa.  
Stokes & Smith Co., 4915 Summerdale Ave., Philadelphia  
Triangle Package Machinery Co., 6643 W. Diversey Blvd., Chicago  
Weigh Right Automatic Scale Co., 404 Grant Ave., Joliet, Ill.

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Consolidated Prods. Co., 59 Garden St., Hoboken, N. J. (Used)  
Ertel Engineering Corp., W. Front St., Kingston, N. Y.  
Hope Machine Co., 9400 State Rd., Phila.  
Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh 4, Pa.  
Hornney & Co., 420 Lexington Ave., N. Y.  
Karl Kiefer Machine Co., 919 Martin St., Cincinnati  
G. Diehl Mateer Co., Stafford, Wayne, Pa.  
M. R. M. Co., 191 Berry St., Bklyn.  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used)  
Packer Machinery Corp., 32 Irving Pl., N. Y.  
Perl Machine Mfg. Co., 72 Jay St., Brooklyn 1  
Pneumatic Scale Corp., North Quincy, Mass.  
Geo. G. Rodgers Co., 2401 Third Ave., N. Y.

Chas. Ross & Son Co., 148 Classon Ave., Bklyn.  
 Scientific Filter Co., 59 Rose St., N. Y.  
 F. J. Stokes Machine Co., 5918 Tabor Rd., Philadelphia  
 Stokes & Smith Co., 4915 Summerdale Ave., Phila. 24  
 Triangle Package Machinery Co., 6643 W. Diversey Ave.,  
 Chicago 35  
 U. S. Bottlers Machinery Co., 4019 N. Rockwell St.,  
 Chicago

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 Consolidated Prods. Co., 59 Garden St., Hoboken, N. J.  
 (Used)

Drum Equipment Corp., 947 Lehigh Ave., Union, N. J.  
 Ertel Engineering Corp., West Front St., Kingston, N. Y.  
 Filpaco Industries, 2464 S. Michigan Ave., Chicago  
 Hope Machine Co., 9400 State Rd., Phila. 14  
 Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh 4  
 Hornney & Co., 420 Lexington Ave., N. Y.  
 Karl Kiefer Machine Co., 919 Martin St., Cincinnati  
 M-R-M Co., 191 Berry St., Bklyn.  
 Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
 Chicago (Used)

Packer Machinery Corp., 32 Irving Pl., N. Y.  
 Scientific Filter Co., 59 Rose St., N. Y.  
 U. S. Bottlers Machy. Co., 4019 N. Rockwell St., Chicago

**FILLING MACHINERY (for Paste in cans, drums)**

Arencos Mach. Co., 25 W. 43rd St., N. Y. 18  
 Consolidated Prods. Co., 59 Garden St., Hoboken, N. J.  
 (Used)

Hope Machine Co., 9400 State Rd., Phila. 14  
 Karl Kiefer Machine Co., 919 Martin St., Cincinnati 2  
 Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
 Chicago (Used)

Perl Mach. Mfg. Co., 68 Jay St., Brooklyn 1  
 Stokes & Smith Co., 4915 Summerdale Ave., Phila.

**FILLING MACHINERY (for Pastes, Tubes)**

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 Cass Products Co., 27-31 Mechanic St., Buffalo  
 Arthur Colton Co., 3400 E. Lafayette Ave., Detroit  
 Consolidated Prods. Co., 59 Garden St., Hoboken, N. J.  
 (Used)

Filpaco Industries, 2464 S. Michigan Ave., Chicago  
 Haring Equipment Co., 533 Broadway, N. Y. 12  
 Hope Machine Co., 9400 State Rd., Phila.  
 Karl Kiefer Machine Co., 919 Martin St., Cincinnati  
 Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
 Chicago (Used)

Perl Mach. Mfg. Co., 68 Jay St., Brooklyn 1  
 Geo. G. Rodgers Co., 2401 Third Ave., N. Y.  
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 Buffalo, N. Y.

Consolidated Prods. Co., 59 Garden St., Hoboken, N. J.  
 (Used)

Exact Weight Scale Co., 944 W. 5th Ave., Columbus, O.  
 J. L. Ferguson Co., Joliet, Ill.

Hornney & Co., 420 Lexington Ave., N. Y.  
 Karl Kiefer Machy. Co., 919 Martin St., Cincinnati

Mandel Products, 207 Astor St., Newark, N. J.

G. Diehl Mateer Co., Stafford, Wayne, Pa.

Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
 Chicago (Used)

Packer Machinery Corp., 32 Irving Pl., N. Y.

Perl Mach. Mfg. Co., 68 Jay St., Brooklyn 1

Pneumatic Scale Corp., North Quincy, Mass.

F. B. Redington Co., 112 S. Sangamon St., Chicago

Geo. G. Rodgers Co., 2401 Third Ave., N. Y.

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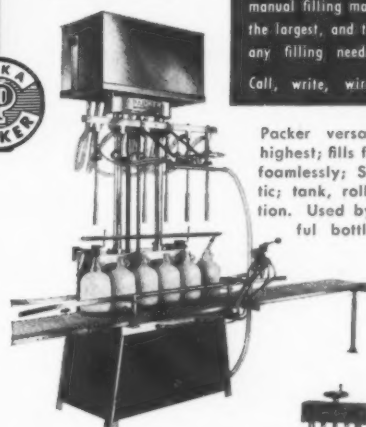
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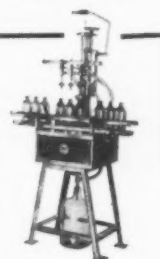
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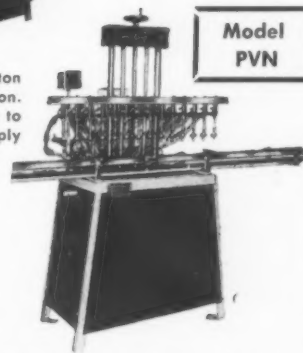
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Weigh Right Automatic Scale Co., 404 Grant Ave.,  
Joliet, Ill.

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American Colloid Co., Merchandise Mart Plaza, Chicago  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
Dicalite Div., 612 S. Flower St., Los Angeles  
Filtrol Corp., 727 W. 7th St., Los Angeles  
Industrial Chem. Sales Div., West Va. Pulp and Paper  
Co., 230 Park Ave., N. Y.  
Johns-Manville Corp., 22 East 40th St., New York  
Peerless Clay & Mineral Co., Pueblo, Colo.  
Westvaco Chem. Div., Food Machy. & Chem. Corp.,  
161 E. 42nd St., N. Y. 17  
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.

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Alsop Engineering Corp., Milldale, Conn.  
Cleveland Wire Cloth & Mfg. Co., 3574 E. 78th St.,  
Cleveland  
Ertel Engineering Corp., West Front St., Kingston, N. Y.  
Filpaco Industries, 2464 S. Michigan Ave., Chicago  
Hercules Filter Corp., 204 21st Ave., Paterson, N. J.  
Newark Wire Cloth Co., 223 Verona Ave., Newark, N. J.  
Niagara Filter Corp., East Moline, Ill.  
Oliver United Filters, Inc., 33 W. 42nd St., N. Y.  
J. T. Perkins Co., 669 Kent Ave., Brooklyn  
Scientific Filter Co., 59 Rose St., N. Y.  
T. Shriver & Co., Harrison, N. J.  
Test Fabrics, Inc., 55 Vandam St., N. Y.  
Valley Foundry & Mach. Works, 710 H. St., Fresno, 10,  
Calif.

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Alsop Engineering Corp., Milldale, Conn.  
Ertel Engineering Corp., W. Front St., Kingston, N. Y.  
Filpaco Industries, 2464 S. Michigan Ave., Chicago  
General Chemical Division, Allied Dye & Chem. Corp.,  
40 Rector St., N. Y.  
Hercules Filter Corp., 204 21st Ave., Paterson, N. J.  
F. R. Hormann & Co., 17 Stone St., Newark, N. J.  
Hornney & Co., 420 Lexington Ave., N. Y.  
Karl Kiefer Machine Co., 919 Martin St., Cincinnati, O.  
Niagara Filter Corp., East Moline, Ill.  
Scientific Filter Co., 59 Rose St., N. Y.  
T. Shriver & Co., Harrison, N. J.  
Sparkler Mfg. Co., Mundelein, Ill.

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Alsop Engineering Corp., Milldale, Conn.  
Consolidated Prods. Co., 59 Garden St., Hoboken, N. J.  
(Used)  
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Filpaco Industries, 2464 S. Michigan Ave., Chicago  
Hercules Filter Corp., 204 21st Ave., Paterson, N. J.  
F. R. Hormann & Co., 17 Stone St., Newark, N. J.  
Hornney & Co., 420 Lexington Ave., N. Y.  
Karl Kiefer Machy. Co., 919 Martin St., Cincinnati  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
Chicago (Used)  
Niagara Filter Corp., East Moline, Ill.  
Scientific Filter Co., 59 Rose St., N. Y.  
T. Shriver & Co., Harrison, N. J.  
Sparkler Mfg. Co., 201 Lake St., Mundelein, Ill.  
D. R. Sperry & Co., Batavia, Ill.  
United Filters Corps., Hazelton, Pa.  
Valley Foundry & Machine Works, Fresno 10, Calif.

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Ertel Engineering Corp., West Front St., Kingston, N. Y.  
Filpaco Industries, 2464 S. Michigan Ave., Chicago  
Johns-Manville Corp., 22 E. 40th St., N. Y.



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 Amso Solvents & Chemicals Co., 4619 Reading Road,  
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 Arnold Laboratories, 1515 W. Glenoaks Blvd., Glendale,  
 Calif.  
 Bilco Chemical Co., 607 DeGraw St., Brooklyn, N. Y.  
 Buffalo Solvents & Chemicals Corp., Box 73, Station B,  
 Buffalo 7, N. Y.  
 Central Solvents & Chemicals Co., 2540 W. Flournoy  
 St., Chicago 12, Ill.  
 Chemical Service of Baltimore, Howard & West Sts.,  
 Balto. 30  
 Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
 Diamond Alkali Co., Union Commerce Bldg., Cleveland  
 Dixie Solvents & Chem. Co., Dixie Highway at Applet-  
 ton Lane, Louisville, Ky.  
 Douglas Chem. Co., 620 E. 16 Ave., North Kan. City, Mo.  
 Dow Chemical Co., Midland, Mich.  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 James Good Co., 2107 Susquehanna Ave., Phila.  
 R. M. Hollingshead Corp., Camden, N. J.  
 Hoosier Solvents & Chemicals Corp., 1650 Luett Ave.,  
 Indianapolis 22, Ind.  
 Michigan Chemical Corp., St. Louis, Mich.  
 Miranol Chemical Co., 277 Coit St., Irvington, N. J.  
 Missouri Solvents & Chemicals Co., 419 De Soto Ave.,  
 St. Louis 7, Mo.  
 Ohio Solvents & Chemicals Corp., 3470 W. 140th St.,  
 Cleveland 11, Ohio  
 Prior Chem. Corp., 420 Lexington Ave., N. Y.  
 Science Industries, 1509 N. Broadway, St. Louis  
 Southern Solvents & Chemicals Corp., 1352 Jefferson  
 Highway, New Orleans 18, La.  
 Texas Solvents & Chemicals Co., 8501 Market St.,  
 Houston 15, Texas  
 Thompson-Hayward Chem. Co., 2915 Southwest Blvd.,  
 Kansas City 8, Mo.  
 Trio Chemical Wks., 341 Scholes St., Brooklyn 6  
 Uncle Sam Chem. Co., 575 W. 131st St., New York  
 Western Solvents & Chemicals Co., 6472 Selkirk Ave.,  
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 Westvaco Chlor-Alkali Div., Food Mach. & Chem. Corp.  
 161 E. 42nd St., N. Y.

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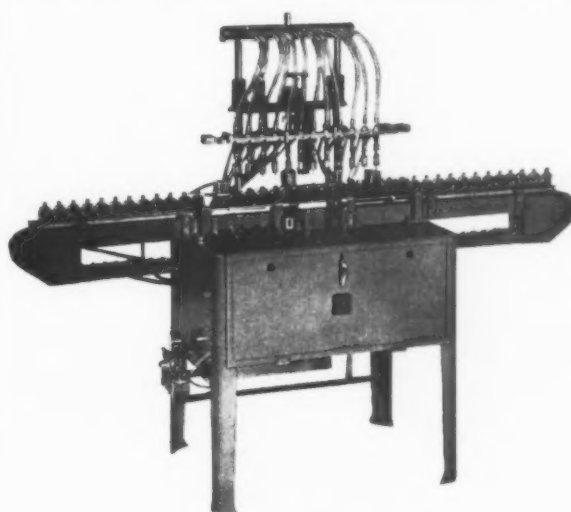
American La France Foamite Corp., Elmira, N. Y.  
 Ansul Chemical Co., Fire Extinguisher Div., Marinette,  
 Wisc.  
 Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridge-  
 port, Conn.  
 Bridgeport Brass Co., Bridgeport, Conn.  
 C-O-Two Fire Equipment Co., U. S. Hwy. 1, Newark, N. J.  
 H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago  
 Walter Kidde & Co., Belleville, N. J.  
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 Safety Fire Extinguisher Co., 293 7th Ave., N. Y.  
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 Chem Service of Balto., Howard & West Sts., Balto. 30  
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
 E. I. du Pont de Nemours & Co., Wilmington, Del.  
 Eagle Soap Corp., Huntington, Ind.  
 Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 Geigy Industrial Chemicals, 89 Barclay St., N. Y.  
 Hysan Prods. Co., 932 W. 38th Place, Chicago  
 Johns-Manville Co., 22 E. 40th St., N. Y.  
 Monsanto Chemicals Co., 1724 South Second St., St. Louis  
 Niacet Chemicals Corp., Niagara Falls, N. Y.  
 Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey  
 City 2  
 George Stearns Chem. Corp., 4200 E. Mendota St.,  
 Madison, Wisc.  
 Theobald Industries, P. O. Box 72, Harrison, N. J.  
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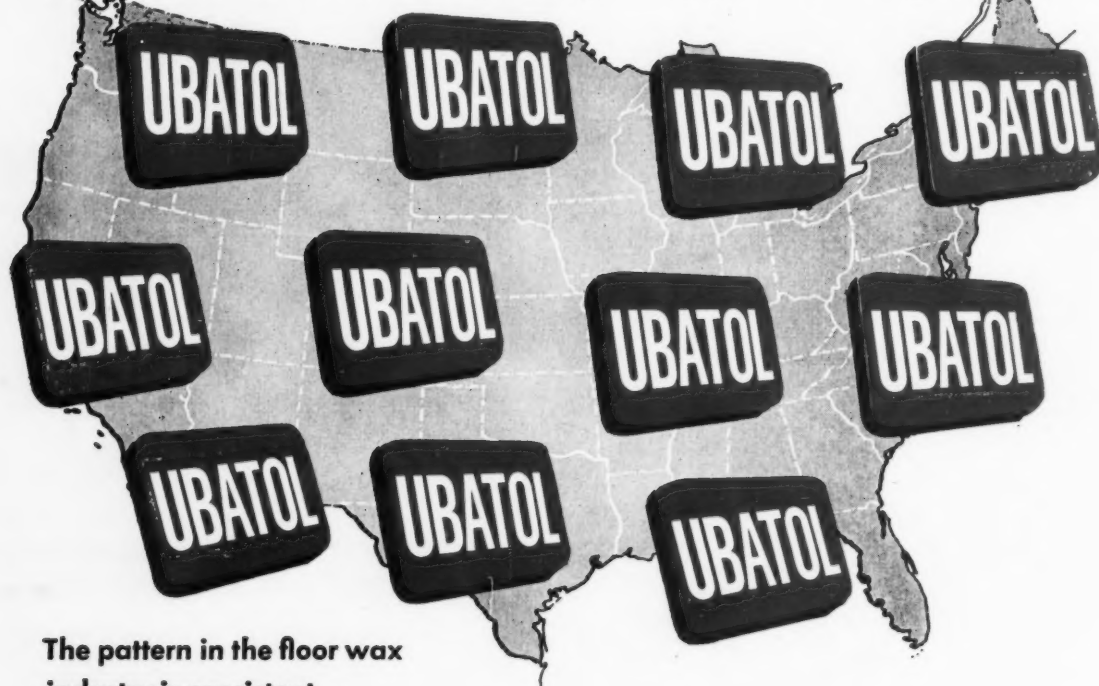
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The pattern in the floor wax industry is consistent—

Users have increased their demand for Ubatol U-2001 ten or more times in a matter of a few weeks. Improved formulations, resulting in greater demand by their household and industrial customers have been responsible.

Don't overlook the improvements possible in adapting your formulations to use with Ubatol U-2001.

Better Gloss  
Increased Durability  
Readily Removable

Higher Soil Resistance  
Improved Water Resistance  
Good Leveling

Excellent Abrasion Resistance

UBS laboratory facilities welcome the opportunity to assist you in the development of your formulations with Ubatol, the most progressive improvement offered to the floor wax industry.

We'd be pleased to send you Bulletin #5 and a working sample of Ubatol U-2001. Yours for the asking.



Reg. T.M.

UNION BAY STATE  
*Chemical Co., Inc.*

491 Main Street, Cambridge 42, Massachusetts

#### FIRE-PROOFING COMPOUNDS (Contd.)

Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee 14, Wis.  
Wolverine Solvents & Chemicals Co., 1500 Century Ave., S.W., Grand Rapids 9, Mich.

#### FIRE PUMPS (see listings under Fire Extinguishers)

#### FISH OILS

(see also Brokers and Dealers)

Archer-Daniels-Midland Co., Minneapolis 2  
Armour & Co., 1355 31st St., Chicago  
Atlas Refinery, Lockwood St., Newark, N. J.  
E. F. Drew & Co., 10 E. 26th St., N. Y. 10  
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave., N. Y. 17  
Murray Oil Products Co., 21 West St., N. Y.  
Pacific Vegetable Oil Co., 3125 E. 26 St., Los Angeles  
J. H. Redding, Inc., 17 Battery Place, N. Y.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
Swan Finch Oil Corp., 205 E. 42nd St., N. Y.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Welch, Holme & Clark Co., 439 West St., N. Y.

#### FISH OIL SOAPS

Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Crystal Soap & Chem. Co., 6300 State Rd., Phila.  
James Good, Inc., 2107 Susquehanna Ave., Phila.  
R. M. Hollingshead Corp., Camden, N. J.  
Murro Chemical Co., Portsmouth, Va.  
Nopco Chemical Co., First & Essex Sts., Harrison, N. J.  
North Coast Chem. & Soap Works, Seattle, Wash.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Schaeffer Mfg. Co., 102 Barton St., St. Louis  
Silmo Chemical Co., Vineland, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y.

#### FLOATING SOAPS

Armour & Co., 1355 W. 31st St., Chicago  
Beach Soap Co., Lawrence, Mass.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
Cudahy Packing Co., 221 N. La Salle St., Chicago  
J. Eavenson & Sons, Camden, N. J.  
Haskins Bros. & Co., Omaha  
Hewitt Soap Co., Dayton, Ohio  
Lever Bros. Co., 390 Park Ave., N. Y.  
Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
Procter & Gamble Distributing Co., Cincinnati  
Schmidt Soap Products Co., 236 W. North Ave., Chicago  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Swift & Co., Chicago  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### FLOOR FINISHES (Non-Wax)

Ampion Corp., 4-88 47th Ave., Long Island City, N. Y.  
Analab Laboratories, 285 Franklin St., Boston 10  
Baird & McGuire, Holbrook, Mass.  
Boston Chemical Industries, 64 E. Brookline St., Boston  
Buckingham Wax Co., 51-03 Van Dam St., L. I. City, N. Y.  
Butcher Polish Co., 183 Commercial St., Malden, Mass.  
Candy & Co., 2515 W. 35th St., Chicago  
Chem Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Davies-Young Soap Co., Dayton, O.  
E. I. du Pont de Nemours & Co., Wilmington  
Eagle Soap Corp., Huntington, Ind.  
Essential Chems. Co., 3200 W. 32nd St., Milwaukee 8  
Federal Varnish Division, S. Ashland Ave. at 29th St., Chicago  
Franklin Research Co., 5134 Lancaster Ave., Phila.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
James Good Co., 2107 Susquehanna Ave., Phila. 25  
Higley Chemical Co., Dubuque, Iowa  
R. M. Hollingshead Corp., Camden, N. J.

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THE PUBLISHERS

## SOAP & CHEMICAL SPECIALTIES BLUE BOOK

254 West 31st St., New York 1, N. Y.

# FEDERAL FLOOR FINISHES

## SEALERS, WAXES and MAINTENANCE MATERIALS

### FLOOR FINISHES

- C.P.R. Finish\*** — The newest development in quality floor finishes. Will not discolor or darken with age. Can be used for gym floors or industrial floors, where outstanding wear and chemical resistance is necessary, without sacrificing color and appearance.
- No-Burn Gym Finish\*** — The outstanding original finish for gym floors. Will not rubber burn — withstands boiling water, resists alkalies, acids, heat and cold.
- Dri-Fast Seal & Finish\*** — The ideal speed finish for wood, linoleum and concrete floors. NOT A LACQUER. Base tung oil and phenol resins. Dries quickly — pale and long wearing.
- Terrazzo Finish\*** — Will not discolor or darken terrazzo. Dries quickly — can be buffed for beautiful lustre. Prevents dusting.
- Felzi-Color Rubberized Color Coat** — For cement, concrete, wood, linoleum or metal. Tenaciously adheres to cement — stubbornly resists moisture.
- Asphalt Tile Finish\*** — Renews and refinishes asphalt, rubber, linoleum and mastic floors. Seals and finishes new or old floors with one coat.

### FLOOR SEALERS

- C.P.R. Sealer\*** — Outstanding development in floor sealers. Penetrates without usual discoloration — will not darken with age. May be used under heaviest traffic conditions. Highly water, wear and chemically resistant.
- Stay Light Sealer** — A light color, fast drying, penetrating sealer especially recommended for industrial application. May be used for very lightest color where speed finishing is necessary.
- Fed-Co\*** — Highest quality penetrating wood sealer. Exceptional hardness and wearing qualities — easily applied with mop or spray.
- Penetroil\*** — Very pale in color. Approved by Maple Flooring Manufacturers Association. Properly fills the pores with a durable elastic film — water resistant.
- Quick-Prime\*** — Fast drying oleo resinous type primer. Dries in less than two hours. Ideal for large industrial plants, mills, bakeries and schools where speed finishing is a must.
- Flex-Seal** — Rubber base penetrating sealer for use on new concrete floors to prevent dusting, staining and discoloration. Requires no etching — dries in less than an hour — one coat application.
- Terrazzo Sealer\*** — Water white — will not discolor terrazzo. Prevents dusting, chipping and disintegration. Resists water, soap, acid and alkali.
- Mastic (Asphalt)\* Tile Sealer\*** — Seals tile against dust, dirt, grease, etc. Dries in less than an hour — will not soften tile or run the colors. Beautifies and highlights original colors.
- Ready Mixed Color Concentrates** — Beauty and durability for cement, concrete, wood and metal. Applied with brush or lamb's wool applicator. Resists oils, gasoline, alcohol, mild acids and alkalies.
- ★ **MAPLE FLOOR MANUFACTURERS ASSOCIATION APPROVED.**

### WAXES

- Super Lightning Lustre\*** — Self-polishing, high quality, extra heavy duty wax. Pure Carnauba Wax-Base. Light color — highly water resistant — longer wear and buffability.
- Super Lightning Lustre-With Ludox** — Same base as the above wax with Ludox added to give maximum anti-slip protection without sacrifice of gloss, durability or other fine performance features.
- Sio-Tred\*** — Self-polishing. Tested and approved by Underwriters' Laboratories, Inc., as an anti-slip material. Made with Carnauba Wax — high gloss.
- L-1290 Concentrate—25% Solids** — Extremely stable wax concentration for reduction to lower solid content. Retains high gloss — excellent water resistance — anti-slip and good durability at any lower solid content.
- Liquid Oil Base Wax** — Buffs and polishes beautifully — easily applied with a mop or applicator. Super quality.
- Var-Lin** — Carnauba Base liquid buffing wax. White, will not discolor linoleum or wood floors. Makes excellent finish for sealed concrete floors. Highest quality obtainable.

### SPECIAL FLOOR TREATMENTS

- Gloss Grip\*** — A new waxless, water-soluble synthetic floor sealer and finish for use on all types of floors. Particularly recommended for Asphalt Tile, Vinyl and Rubber Tile floors. High gloss — no wax — safety for all floors. Does not contain Ludox.
- Sila-Kone-Gloss\*** — New type of floor treatment containing silicone. Requires no polishing. Economical, safe floor maintenance.
- Sil-Lox\*** — A wax replacement finish containing silicone and Ludox for positive anti-slip. No polishing required. Ideal for hard surface floors. Easy to remove.

\*Listed and Approved by Underwriters Laboratories as an Anti-Slip Material.

### SPECIAL CLEANING, MAINTENANCE AND FINISHING MATERIALS . . .

- Dust-A-Sheen** — Emulsion wax base dust mop treatment.
- Magic Floor Spray** — For treating dust mops, cleaning and polishing of hard floors.
- Gym Finish Cleaner and Polish** — Solvent cleaner for removal of rubber marks and maintenance of gymnasium floors.
- No. 70 Restorer\*** — Wax base, waterless cleaner and finish for hard floors.
- No-Burn Varnish Remover** — Non-inflammable remover for paints, varnishes, sealers and finishes. Heavy bodied.
- Strip-Fast Stripper** — Non-inflammable stripper for paints, varnishes, sealers and finishes. Especially for floors.
- Triple Strength Varnish Remover** — Semi-paste, inflammable remover. Quick acting. Economical.
- Lightning Lustre Wax Base Soap** — Combines cleaning and waxing action for all types of floors.
- Asphalt Tile Cleaner and Conditioner** — Detergent type cleaner for quick and thorough cleaning of all floors. Safe — economical.
- Concentrated Cleaner and Conditioner** — More highly concentrated Asphalt Tile Cleaner and Conditioner.
- Kwick Kleen-Double Concentrate Cleaner** — Neutral cleaner in double concentrate form — synthetic detergent with activated action for removal of soap scum, oil, dirt and grease. Safe for all floors.
- Wax Strip** — Powerful — Wax Dissolving Action — Will emulsify and soften old wax films, dirt, oil, etc. — Use on any floor.
- Complete Line Sani-Surf Swimming Pool Finishes** — Write for color chart and bulletin.
- Peerless Paint** for private label — Interior and exterior paints — complete and profitable.
- Kleen Sheen** — Patented paint for interior surfaces — dirt repellent — ideal for hospitals, food processing plants and hard-to-keep-clean walls and ceilings.
- Special Maintenance Products** — We will be glad to give personal attention to special floor problems. Your inquiries are invited.



# Federal VARNISH DIVISION

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#### FLOOR FINISHES (Non-wax) (Contd.)

Hysan Prods. Co., 932 W. 38th Place, Chicago  
S. C. Johnson & Son, Racine, Wisc.  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
Masury Young Co., 76 Roland St., Boston 29  
Midland Labs., Dubuque, Iowa  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
Old Empire, Inc., Mt. Prospect & Verona Aves.,  
Newark, N. J.  
Peck's Products Co., 610 E. Clarence Ave., St. Louis  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
Sanders Chem. Co., 2205 N. American St., Phila. 33  
Shawmut Specialty Co., 315 Centre St., Boston  
E. B. Snyder Labs., 4450 Leiper St., Phila.  
L. Sonneborn Sons, Inc., 300 4th Ave., N. Y. 10  
Trio Chemical Wks., 341 Scholes St., Bklyn. 6  
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.  
U. S. Sanitary Spec. Corp., 1001 S. California Ave.,  
Chicago 12  
Veneer-O-Wax Corp., 2010-12 E. Fletcher St., Phila. 25  
Vestal, Inc., 4963 Manchester St., St. Louis 10  
Victory Chem. Co., 148 Fairmount Ave., Phila.  
T. F. Washburn Co., 2244 Elston Ave., Chicago  
Windsor Wax Co., 611 Newark St., Hoboken, N. J.  
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada

#### FLOOR MACHINES

Amer. Floor Surfacing Mach. Co., Toledo, O.  
Atlas Floor Surfacing Machy., 248 E. 34th St., N. Y. 16  
Breuer Elect. Mfg. Co., 5100 N. Ravenswood Ave.,  
Chicago 40  
Clarke Sanding Machine Co., Muskegon, Mich.  
Columbus-Dixon, Inc., 21 West Street, N. Y.  
Finnell System, Inc., Elkhart, Ind.  
General Floorcraft Corp., 421 Hudson St., N. Y.  
Hild Floor Machine Co., 740 W. Washington St., Chicago  
Holt Manufacturing Co., 699 20 St., Oakland, Calif.  
Kent Co., 426 Canal St., Rome, N. Y.  
S. C. Lawlor Co., 122 N. Aberdeen St., Chicago  
Lincoln-Schlueter Floor Machy. Co., 1250 W. Van Buren  
St., Chicago

Multi-Clean Prods., 2277 Ford Pkway., St. Paul  
Ponsell Floor Machine Co., 220 W. 19th St., N. Y.  
Premier Co., 755 Woodlawn Ave., St. Paul, Minn.  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
H. V. Smith Co., 1910 Univ. Ave., St. Paul, Minn.  
United Floor Machine Co., 7715 S. Chicago Ave., Chicago  
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#### FLOOR MATS (see Mats)

#### FLOOR SCRAPERS and SANDERS

American Floor Surfacing Machine Co., Toledo, O.  
Atlas Floor Surfacing Machy., 248 E. 34 St., N. Y. 16  
Clarke Sanding Machine Co., Muskegon, Mich.  
A. F. Dormeyer Mfg. Co., 4316 N. Kilpat'k St., Chicago  
Lincoln-Schlueter Floor Machy. Co., 1250 W. Van Buren  
St., Chicago  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
White Mop Wringer Co., Fultonville, N. Y.

#### FLOOR SCRUB SOAPS (see also Potash Soaps)

Aid Soap Mfg. Co., Rochester, Pa.  
American Soap & Washoline Co., Cohoes, N. Y.  
Ampion Corp., 4-88 47 Ave., Long Island City, N. Y.  
Armour Industrial Soap Dept., Chicago 9  
Baird & McGuire, Inc., Holbrook, Mass.  
Banner Chem. Prod. Co., 9 Calumet St., Newark, N. J.  
Baum's Castorine Co., Rome, N. Y.  
Betco Corp., 830 Elysian Ave., Toledo, O.  
Bilco Chemicals Co., 607 DeGraw St., Brooklyn, N. Y.  
Boston Chemical Industries, 64 E. Brookline St., Boston  
Buckingham Wax Co., 51-03 Van Dam St., L. I. City,  
N. Y.  
Butcher Polish Co., 183 Commercial St., Malden, Mass.  
Candy & Co., 2515 W. 35th St., Chicago  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Clifton Chemical Co., 62 William St., N. Y.  
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia

## INDUSTRIAL PRODUCTS DIVISION REILY CHEMICAL COMPANY

DEBT. B, P.O. BOX 98, NEW ORLEANS 6, LA.

### QUALITY Water-emulsion Waxes; Cleaners; Disinfectants



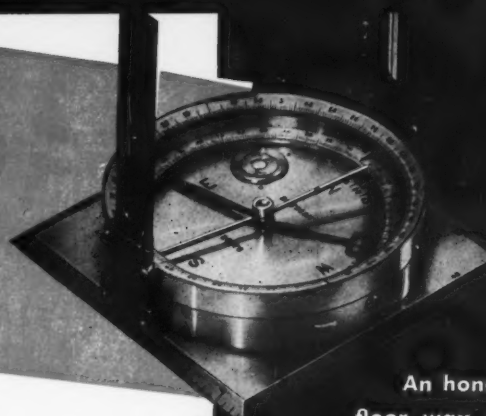
Our new modern plant located in the shipping center of the south.

PINE OIL DISINFECTANT  
MANUFACTURED AT THE  
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OFFERING THE SANITARY  
SUPPLY DEALER THE  
ULTIMATE IN QUALITY  
WITH THE LOWEST  
POSSIBLE FREIGHT COST

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# A GUIDE

## TO WAX PRODUCTS PURCHASING FOR PRIVATE BRAND RESALE



### SELF POLISHING WAXES

Candy's Supreme (standard)  
Bright Beauty (standard)  
Candy's Supreme Special WR

#### SUPER CAND-DOX®

CAND-DOX #CS

CAND-DOX #BB

Six floor waxes that are all-around top quality for any given traffic condition. Each imparts the finest protection and beauty to floors for which they are best suited.

### Bright Beauty WAX REMOVER & All-Purpose SURFACE CLEANER

Properly used it will remove water-emulsion wax from any floor without harmful effects to floor or floor coloring. It is the perfect floor maintenance wax remover and all purpose surface cleaner. Pleasant odor, crystal clear and thorough cleaning action with all types of equipment. Is unaffected by hard freezing. Furnished ready for resale or in concentrated form for those who want to compound their own cleaner . . . nothing but water to buy or mix in.

### Bright Beauty CREAM FURNITURE POLISH

A cream furniture polish that spreads easily, polishes without excessive effort and imparts a deep impressive lustre. Too, it permits *repeated repolishing* with a dry cloth saving reapplication time and again; truly a very economical polish of very highest quality.

### Bright Beauty PASTE WAX

A paste wax that is properly blended and refined from excellent quality solids and solvents that produce the best drying time and thorough evaporation. A wax that is easy to handle, having "creamy" consistency and stability throughout its stocking and usage period.

### Bright Beauty LIQUID (spirit) PREPARED WAXES

Complete line of spirit dissolved waxes that meet a wide variety of demands for durability, color and types of usages. Each its own "Dry Cleaner," they keep a surface waxed with a superb protective coating necessary to many difficult surfaces such as certain floors (where adaptable), bars, wallpaper, etc.

### Bright Beauty GLASS POLISH & CLEANER and SILVER POLISH

As a Glass Cleaner (pink color) it applies evenly with little effort, wipes off easily with negligible "powdering" and produces an undeniable "feel" of cleanliness to glass that is actually true in fact. Different in color only as Silver polish, it imparts a highly desirable lustre to all silver *without* abrasion and can even correct the abuses of scratchy, "quick-polish" inferior products.

### Bright Beauty DANCE FLOOR WAX

Basic advantages are freedom from "balling up," thus does not gather dirt and impregnate the floor with hard spots difficult to remove . . . also is free from dusty effects. Adds the protective quality to expensive ballroom floors that means more "floor-years" to users everywhere.

### Bright Beauty Heavy Duty PASTE CLEANER

Really *cleans* and *scours* more effectively and quicker than most scouring powders. Depending on application, it can clean to perfection even painted walls to provide a suitable repainting surface. 100% active, free from excessive abrasive quality, it frees almost every surface from all forms of foreign matter to perfection.

An honest appraisal of floor wax products as we see it is offered to guide wax buyers who want the best quality money can buy...

#### 1. BEAUTY AND DURABILITY

should be considered together. Initial appearance is important, but for a waxed surface to remain beautiful it must be durable. Durability depends not only on resistance to the abrasion of traffic, but even more so on resistance to the collection of dirt and to discoloring traffic marks. Durability is really measured by how long the waxed surface maintains a nice appearance before the necessity of complete removal and re-waxing.

#### 2. ANTI SLIP

qualities are necessary in a good wax as a matter of safety underfoot. This important quality does not necessarily require the sacrifice of beauty and protection which are the foremost original reasons for the use of a wax. Look for the proper balance—a wax film which is not excessively slippery yet which is not tacky and does not excessively collect dirt.

#### 3. WATER RESISTANCE

is important, particularly when considering the possibility of wet traffic and the necessity for frequent damp mopping for the purpose of removing surface dirt. Overdoing this quality means greater difficulty in applying multiple coats of wax and may seriously increase the difficulty in removal when complete cleaning and re-waxing is necessary. Water resistance is important, but so is the quality of removability.

#### 4. SOLID CONTENT

when expressed in percentage is not nearly as important as the quality of the solid content. When considering good quality, 12% of solids answers most needs for good planned maintenance programs. Two applications of 12% will give better results than one of 18%. However, the more concentrated material is useful for some programs of maintenance and particularly on "washed-out" floors, etc. Over-waxing should be avoided so that periodic complete removal will not be too difficult.

#### 5. CARNAUBA WAX

is still the most important basic ingredient in our floor waxes. When refined and compounded with other important ingredients and "KNOW HOW," it aids materially in producing the most important features of a good floor wax... ALL AROUND QUALITY OF PERFORMANCE.

#### • CANDY'S DISTRIBUTION AND SALES POLICY

Our products are available for private brand resale and are sold only through Distributors except for experimental accounts in Chicago essential to research.

Wax Specialists for over 60 years  
**Candy & Company, Inc.**  
2515 W. 35th ST., CHICAGO

#### FLOOR SCRUB SOAPS (Contd.)

Cudahy Packing Co., 221 N. La Salle St., Chicago  
Davies-Young Soap Co., Dayton, O.  
E. F. Drew & Co., 10 E. 26th St., N. Y. 10  
Eagle Soap Corp., Huntington, Ind.  
Empire Chem. Prods. Co., 10 Long Worth St., Newark, N. J.  
Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8  
Franklin Research Co., 5134 Lancaster Ave., Phila.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.  
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia  
Hewitt Soap Co., Dayton, O.  
Higley Chemical Co., Dubuque, Iowa  
R. M. Hollingshead Corp., Camden, N. J.  
Hunnewell Soap Co., 114 W. 2nd St., Cincinnati 2  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Knoxall Corp., 1005 E. Sumner Ave., Indianapolis  
Kranich Soap Co., 60 Richards St., Brooklyn  
Murro Chemical Co., Portsmouth, Va.  
Los Angeles Soap Co., 617 E. 1st St., Los Angeles  
Midland Labs., Dubuque, Iowa  
National Chemical Laboratories, 825 Lombard St., Phila.  
National Milling & Chemical Co., 4601 Nixon St., Phila. 27  
Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
N. Y. Soap Co., 258 Third St., Brooklyn  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Oil Kraft, Inc., 3330 Beekman St., Cincinnati 23  
Oil Specialties & Ref. Co., 18 Bridge St., Bklyn.  
Original Bradford Soap Wks., West Warwick, R. I.  
Piatt & Smillie Chemicals, 2329 Pine St., St. Louis 3  
Procter & Gamble Dist. Co., Cincinnati  
Puritan Chem. Co., Atlanta, Ga.  
Puritan Soap Co., 573 Lyell Ave., Rochester, N. Y.  
Reilly Chemical Co., Industrial Prods. Div., P. O. Box 98, New Orleans, La.  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
Sanders Chem. Co., 2205 N. American St., Phila. 33  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
Savin Products Co., 1221 Dorchester Ave., Boston 25  
Schaeffer Mfg. Co., 102 Barton St., St. Louis  
I. Schneid, Inc., 916 Ashby St., N.W., Atlanta, Ga.  
Science Industries, 1509 N. Broadway, St. Louis  
E. B. Snyder Labs., 4450 Leiper St., Phila. 24  
Shawmut Specialty Co., 315 Center St., Boston  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Swift & Co., Chicago  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Trio Chem. Wks., 341 Scholes St., Bklyn. 6  
Tru-Pine Co., 7638 Vincennes Ave., Chicago 20  
Twi-Laq Chemical Co., 25 N. Portland Ave., Bklyn.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.  
U. S. Sanitary Spec. Corp., 1001 S. California Ave., Chicago 12  
James Varley & Sons, 1200 Switzer Ave., St. Louis  
Veneer-O-Wax Corp., 2010-12 E. Fletcher St., Phila. 25  
Vestal, Inc., 4963 Manchester St., St. Louis 10  
Warwick Co., 10-10 44th Ave., L. I. C., N. Y.  
T. F. Washburn Co., 2244 Elston Ave., Chicago  
Windsor Wax Co., 611 Newark St., Hoboken, N. J.  
Wolf Soap Co., 1116 Wyckoff Ave., Bklyn. 27  
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

FLOOR SEALERS (see Sealers)

FLOOR WAX APPLICATORS (see Applicators)

#### FLOOR WAXES

American Wax Co., 13-26 128th St., College Point, L. I.  
Ampion Corp., 4-88 47 Ave., Long Island City, N. Y.  
Analab Labs., 285 Franklin St., Boston 10  
Antiseptol Co., 5524 Northwest Highway, Chicago  
Banner Chemical Products Co., 9 Calumet St., Newark 5, N. J.

## HAAG PRODUCTS

for

## Jobbers and Converters

Backed by More Than 25 Years'  
Service to the Industry

Haag Self-Polishing Safety Wax  
Haag Self-Polishing Standard Wax  
Zephyr-Brite Liquid Floor Cleanser  
VOS Liquid Scrub Soap  
UTL Liquid Scrub Soap  
Wax Soap Cleanser  
Wax Stripper  
Terrazzo & Marble Cleaner  
Synthetic Cleaner Concentrate  
Liquid Surgical Soap  
Seniorseptic (with G-11)  
Castile Baby Soap  
Hospital Green Jelly Soap  
Liquid Toilet Soaps  
40% Coconut Oil Liquid Soap  
Coco-Castile Shampoos  
Rug & Upholstery Shampoo  
Pine Oil Disinfectant  
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Metal Polish  
Cedar Oil Furniture Polish  
Mop & Floor Spray  
Window Spray

Write for Description  
Samples and Price List

## HAAG LABORATORIES, INC.

P. O. BOX 114, BLUE ISLAND, ILL.





- Deep Tone Concentrate
- Deep Tone
- All American Gym Finish
- Super All American
- Concentrated Seal and Finish
- Tread Proof Seal
- Penetrating Seal

## YEARS OF RESEARCH

Continuing research and development since 1886 have made products bearing the Washburn name the best for finishing and maintaining floors of all types.

The quality of every Washburn product can be traced to this 69-year tradition of unceasing scientific application.

This explains why Washburn products do the job better, give better-looking results, last longer, and save costs over the years.

Whatever you need for a balanced and complete floor maintenance program, Washburn can supply. And, of course, the Washburn technical staff is always ready to help you.

- Concentrated Flor Co Seal and Finish
- Flor Co Finish
- Flor Co Sealer
- Lockstep Protective Coating
- Deep Luster Conc. Wax (24 to 26% Solids)
- Deep Luster Wax (12 to 13% Solids)
- Deep Luster Wax No. 14 (14 to 15% Solids)
- Deep Luster Wax No. 18 (18 to 19% Solids)
- Sure Step Conc. Wax (24 to 26% Solids)
- Sure Step (12 to 13% Solids)
- Sure Step Wax No. (14 to 15% Solids)
- Sure Step Wax No. 18 (18 to 19% Solids)
- Flor Film Buffing Wax
- Crystal Seal
- Clear Lite
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# FLOOR WAXES (Contd.)

Baird & McGuire, Inc., Holbrook, Mass.  
 Boston Chemical Industries, 64 E. Brookline St., Boston  
 Brilco Laboratories, 1533 63rd St., Bklyn. 19  
 Buckingham Wax Corp., Van Dam St. & Borden Ave.,  
 L. I. City, N. Y.  
 Butcher Polish Co., 183 Commercial St., Malden, Mass.  
 Candy & Co., 2515 W. 35th St., Chicago  
 Cato Chemical Co., 610 Linden Ave., Elmhurst, Ill.  
 Chemical Service of Balto., Howard & West Sts., Balto.  
 Chicago Sanitary Prods. Co., 3100 Throop St., Chicago  
 C. M. C. Laboratories, 15 Vandewater St., N. Y. 38  
 Crystal Soap & Chemical Co., 6300 State Rd., Phila.  
 Davies-Young Soap Co., Dayton, O.  
 E. I. du Pont de Nemours & Co., Wilmington, Del.  
 Eagle Soap Corp., Huntington, Ind.  
 Empire Chemical Prods. Co., 10 Longworth St., Newark,  
 N. J.  
 Essential Chems. Co., 2200 N. 32nd St., Milwaukee 8  
 Federal Varnish Division, S. Ashland Ave. at 29th St.,  
 Chicago  
 Franklin Research Co., 5134 Lancaster Ave., Phila.  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 James Good, Inc., 2107 Susquehanna Ave., Phila  
 Golden Star Polish Mfg. Co., 2901 E. 13th St., Kansas  
 City, Mo.  
 Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue  
 Island, Ill.  
 Harley Soap Co., Pierce & Orthodox Sts., Phila.  
 Higley Chemical Co., Dubuque, Iowa  
 R. M. Hollingshead Corp., Camden, N. J.  
 Hunt Mfg. Co., Lisbon Rd., Cleveland  
 Hysan Prods. Co., 932 W. 38th Place, Chicago  
 S. C. Johnson & Son, 1525 Howe St., Racine, Wisc.  
 Knoxall Corp., 1005 E. Sumner Ave., Indianapolis  
 Majestic Wax Co., 2139 Blake St., Denver, Colo.  
 Midland Labs., Dubuque, Iowa  
 M. & H. Laboratories, 2703 Archer Ave., Chicago  
 Masury Young Co., 76 Roland St., Boston 29  
 National Laboratories, Inc., 4934 Lewis Ave., Toledo O.  
 New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.

Oil Specialties & Refining Co., 18 Bridge St., Bklyn.  
 Oil-Kraft, Inc., 3330 Beekman St., Cincinnati  
 J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.  
 Peck's Prods., 610 E. Clarence Ave., St. Louis  
 Pennsylvania Refining Co., Butler, Pa.  
 Perrow Chemical Co., Hurt, Va.  
 Puritan Chem. Co., Atlanta, Ga.  
 Reily Chem. Co., Industrial Prods. Div., P. O. Box  
 98, New Orleans, La.  
 Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
 Schaeffer Mfg. Co., 102 Barton St., St. Louis  
 I. Schneid, Inc., 916 Ashby St., Atlanta, Ga.  
 Shawmut Specialty Co., 315 Centre St., Boston  
 Science Industries, 1509 N. Broadway, St. Louis  
 Simoniz Co. 2100 Indiana Ave., Chicago 16  
 Slick-Shine Co., 207 Astor St., Newark, N. J.  
 H. V. Smith & Co., 1910 Univ. Ave., St. Paul, Minn.  
 E. B. Snyder Labs., 4450 Leiper St., Phila.  
 John C. Stalford & Sons, 319 W. Pratt St., Baltimore  
 H. F. Staples Co., Medford, Mass.  
 M. D. Stetson Co., 64 E. Brookline St., Boston  
 Tesco Chemicals, Inc., Atlanta 5, Ga.  
 Theobald Industries, P. O. Box 72, Harrison, N. J.  
 Trio Chem. Wks., 341 Scholes St., Bklyn.  
 Twi-Laq Chemical Co., 25 N. Portland Ave., Brooklyn  
 Twin City Shellac Co., 340 Flushing Ave., Brooklyn  
 Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
 Uncle Sam Chem. Co., 573 W. 131st St., N. Y.  
 U. S. Sanitary Specialties Corp., 1001 S. California Ave.,  
 Chicago 12  
 Veneer-O-Wax Corp., 2010-12 E. Fletcher St., Phila. 25  
 Vestal, Inc., 4963 Manchester St., St. Louis 10  
 T. F. Washburn Co., 2244 Elston Ave., Chicago  
 Wilco Co., 4425 Bandinni Blvd., Los Angeles  
 Windsor Wax Co., Inc., 611 Newark St., Hoboken, N. J.  
 G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada  
 Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte,  
 Mich.

## FLOOR WAXES, (Germicidal)

Trio Chemical Works, Inc., 341 Scholes St., Brooklyn



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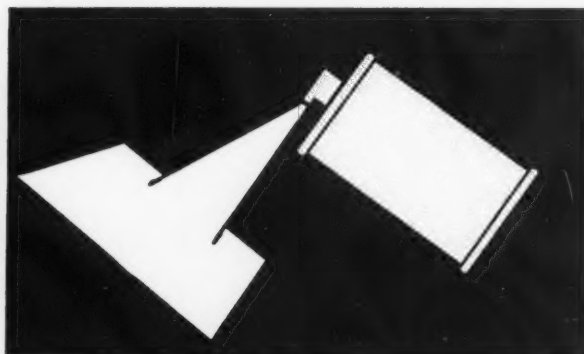
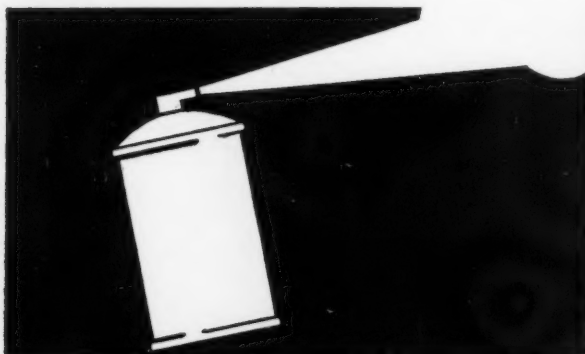
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For best results in aerosol dispensing, a product must be carefully formulated with its specific requirements in mind. There is usually one combination of pressure, solubility, stability, particle size and other properties that is most ideally suited for a product. As the chart below indicates, there are actually many Du Pont "Freon" fluorinated hydrocarbon propellant solutions . . .

over twenty-five in all. They offer combinations of properties that cover the needs of packagers who work with every type of aerosol product.

Du Pont "Freon" propellents are manufactured under the rigid guidance of a strict *statistical quality control* program. Precise analyses and frequent sampling during production protect the pure, uniform quality of the product you buy. And "Freon"

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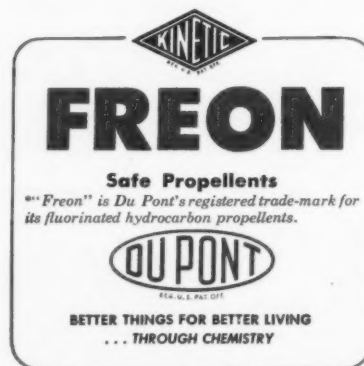
### Consult Du Pont for Marketing and Laboratory Help

Call on Du Pont's experienced chemists and technicians for help in formulating your product for aerosol packaging, and in choosing the right "Freon" propellant. Du Pont can also provide you with information that will help you in your marketing and sales planning. This information is collected during Du Pont's Annual Survey of the Aerosol Market. For technical or marketing help write to: E. I. du Pont de Nemours & Co. (Inc.), "Kinetic" Chemicals Div., Wilmington 98, Delaware.

TYPICAL "FREON" PROPELLENT SOLUTIONS FOR VARIOUS PRODUCT TYPES

"FREON" PROPELLENT	PRODUCT TYPE			
	SPACE SPRAY	SURFACE SPRAY	POWDER SPRAY	WATER-BASED FORMULAE
"FREON-12" dichlorodifluoromethane	(high-pressure, ✓ 70 psig)	✓		
"FREON-12"- "FREON-11" solutions dichlorodifluoromethane trichloromonofluoromethane	(pressure range ✓ 30-40 psig)	(pressure range ✓ 12-40 psig)	(pressure range ✓ 10-70 psig)	
"FREON-114" dichlorotetrafluoroethane		(12 psig) ✓		
"FREON-12"- "FREON-114" solutions dichlorodifluoromethane dichlorotetrafluoroethane			(pressure range ✓ 12-70 psig)	✓ (12-60 psig, also for glass- bottled aerosols)
"FREON-12"- "FREON-113" solutions dichlorodifluoromethane trichlorotrifluoroethane			(pressure range ✓ 10-70 psig)	✓

**NOTE:** These are only some of the "Freon" propellant solutions available, and the exact one chosen will depend on the product dispensed and the spray pattern desired. "Freon-12"- "Freon-114" solutions are recommended for water-based products because of their stability in presence of water.



## FLOOR WAXES, Insecticidal

Chemical Service Co. of Baltimore, Howard & West Sts., Baltimore  
Franklin Research Co., 5124 Lancaster Ave., Phila.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Hysan Prods. Co., 932 W. 38th Pl., Chicago  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
Veneer-O-Wax Corp., 2010-12 Fletcher St., Phila. 25  
Windsor Wax Co., 611 Newark St., Hoboken, N. J.

## FLUORIDES

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
American Fluoride Corp., 151 W. 19th St., N. Y.  
Blockson Chemical Co., Joliet, Ill.  
California Spray-Chemical Corp., Richmond, Calif.  
Dow Chem. Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Harshaw Chemical Co., 1945 97th St., Cleveland  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh  
Merck & Co., Rahway, N. J.  
Penna. Salt Mfg. Co., 1000 Widener Bldg., Phila.  
Pfaltz & Bauer, 350 Fifth Ave., N. Y.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
Henry Sundheimer, Inc., 103 Park Ave., N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14

## FLYPAPER and RIBBONS

Tanglefoot Co., 314 Straight Ave., S.W., Grand Rapids, Mich.  
R. E. Tongue & Bro., Alleghany and Amber Sts., Phila.

## FLY SPRAYS (see Household Insecticides)

## FOAMING AGENTS (see Detergents, Synthetic; also Wetting Agents)

## FOGGING EQUIPMENT (See Sprayers, Fogging)

## FOOT BATHS (Rubber)

Stalwart Rubber Co., Bedford, O.  
U. S. Rubber Co., Market & South Sts., Passaic, N. J.

## FORMALDEHYDE

(see also Brokers and Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Celanese Corp., 180 Madison Ave., N. Y. 16  
Cliffs-Dow Chem. Co., Marquette, Mich.  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 16  
Heyden Chem. Co., 342 Madison Ave., N. Y. 17  
Mallinckrodt Chemical Work, St. Louis, Mo.  
Merck & Co., Rahway, N. J.  
Nitrogen Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Olin Mathieson Chem. Corp., Baltimore 3  
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17  
Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
Solvay Process Div., Allied Chemicals & Dye Corp., 61 Broadway, N. Y.  
Jos. Turner & Co., Ridgefield, N. J.

## FORMULATIONS, Private Brand (see listings under individual headings)

## FRAMES (Soap)

Consolidated Prods. Co., 59 Garden St., Hoboken, N. J.  
(Used)  
Houchin Machinery Co., Hawthorne, N. J.  
Littleford Bros., 451 E. Pearl St., Cincinnati

Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago

## "FREON" (Fluorinated Hydrocarbon Propellant)

Kinetic Chemical Div., E. I. du Pont de Nemours & Co., Wilmington

## FULLERS EARTH

Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Chas. B. Chrystal Co., 53 Park Pl., N. Y.  
Filpaco Industries, 2464 S. Michigan Ave., Chicago  
Filtrol Corp., 727 W. 7th St., Los Angeles  
Floridin Co., 200 Liberty St., Warren, Pa.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland  
Heckathorn & Co., 641 S. Fourth St., Richmond, Calif.  
Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.  
Innis Speiden & Co., 420 Lexington Ave., N. Y.  
Rosenthal Bercow, 23 E. 26th St., N. Y. 10  
L. A. Salomon & Bro., 216 Pearl St., N. Y.  
Sinclair Refining Co., East Chicago, Ind.  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Tamms Industries, Inc., 228 N. La Salle St., Chicago  
United Clay Mines Corp., 101 Oakland St., Trenton, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.

## FUMIGANTS, SOIL (see Soil Fumigants)

## FUMIGANTS (Cyanides, Chlorpicrin, Methyl Bromide, etc.)

American-British Chem. Supplies, 180 Madison Ave., N. Y.  
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
American Potash & Chem. Corp., 3100 E. 26th St., Los Angeles, Calif.  
Calif. Spray-Chemical Corp., Richmond, Calif.  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
Diamond Alkali Co., Union Commerce Bldg., Cleveland  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Eagle Soap Corp., Huntington, Ind.  
Geigy Agricultural Chemicals, 89 Barclay St., N. Y. 7  
Heyden Chemical Corp., 342 Madison Ave., N. Y. 17  
Jefferson Chem. Co., 260 Madison Ave., N. Y. 16  
Koppers Co., Chamber Commerce Bldg., Pittsburgh 19  
Larvacide Products Co., 117 Liberty St., N. Y.  
Michigan Chem. Corp., St. Louis, Mich.  
Olin Mathieson Chem. Corp., Baltimore 3  
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.  
Rohm & Haas Co., Inc., 222 W. Washington Sq., Philadelphia  
Shell Chem. Corp., 50 W. 50th St., N. Y.  
Stauffer Chem. Co., 380 Madison Ave., N. Y.  
Westvaco Chlor-Alkali Div., Food Machy. & Chem. Corp., 161 E. 42nd St., N. Y.  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

## GARBAGE PAILS AND CANS

Atlantic Stamping Co., 156 Ames St., Rochester, N. Y.  
Jones & Laughlin Steel Corp., 405 Lexington Ave., N. Y.  
F. H. Lawson Co., 852 Evans St., Cincinnati  
W. J. McElmoyl Co., Groveville, N. J.  
Rochester Can Co., 88 Greenleaf St., Rochester, N. Y.  
Shore Metal Products, 2881 E. Pico Blvd., Los Angeles 33  
U. S. Steel Prods. Co., 30 Rockefeller Plaza, N. Y. 20  
Witt Cornice Co., 2118 Winchell Ave., Cincinnati

## GAS MASKS (also Dust Masks, Respirators)

Davis Emergency Equip. Co., 43 Halleck St., Newark, New Jersey  
Goggle Parts Co., 1468 W. 9th St., Cleveland  
Mine Safety Appliances Co., Braddock, Thomas & Meade Sts., Pittsburgh, Pa.  
Pulmosan Safety Equip. Corp., 644 Pacific St., Bklyn., N. Y.  
Willson Products Co., 116 Thorn St., Reading, Pa.

**GAUGES (see Instruments)**

**"GENETRON," Aerosol Propellant**

General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.

**GERANIOL (see Aromatic Chemicals)**

**GERANIUM OIL (see Essential Oils)**

**GERANYL ACETATE (see Aromatic Chemicals)**

**GERMICIDES (for Soap, Etc.)**

Hilton-Davis Chemical Co., 2235 Langdon Farm Rd.  
Cincinnati 13  
Ottawa Chem. Co., 823 Hamilton St., Toledo 7, O  
Monsanto Chem. Co., St. Louis 4  
Sindar Corp., 330 W. 42 St., N. Y. 18  
R. T. Vanderbilt Co., 230 Park Ave., N. Y. 17

**GLASS BOTTLES and JARS (see Bottles)**

**GLASS and WINDSHIELD CLEANERS**

Atlantic Refining Co., 260 S. Broad St., Phila.  
Baird & McGuire, Inc., Holbrook, Mass.  
Boston Chemical Industries, 64 E. Brookline St., Boston 18  
Chemical Service of Baltimore, Howard & West Sts.,  
Balto. 30  
Clifton Chemical Co., 62 William St., N. Y.  
Davies-Young Soap Co., Dayton 1, O.  
Eagle Soap Corp., Huntington, Ind.  
Essential Chems. Co., 2200 N. 32nd St., Milwaukee 8  
Franklin Research Co., 5134 Lancaster Ave., Phila. 31  
Fuld Bros., 702 S. Wolfe St., Baltimore  
James Good, Inc., 2107 Susquehanna Ave., Phila.  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Prods. Co., 932 W. 38th Place, Chicago

Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
D. S. Lesnever & Son, 213 Sumer St., Lynn, Mass.  
Masury Young Co., 76 Roland St., Boston 29  
M. Michel & Co., 90 Broad St., N. Y.  
Midland Labs., Dubuque, Ia.  
M. & H. Laboratories, 2703-5 Archer Ave., Chicago  
National Sanitary Prods., 3944 Olive St., St. Louis 8  
Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
Oil Kraft, Inc., 3330 Beekman St., Cincinnati  
Sanders Chem. Co., 2205 N. American St., Phila. 33  
Science Industries, 1509 N. Broadway, St. Louis  
I. Schneid, Inc., 916 Ashby St., Atlanta, Ga.  
Shell Chemical Corp., 50 W. 50th St., N. Y. 18  
E. B. Snyder Labs., 4450 Leiper St., Phila. 24  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Thompson-Hayward Chem. Co., 2915 Southwest Blvd.,  
Kansas City 8, Mo.  
Trio Chemical Wks., 341 Scholes St., Brooklyn 6  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
U. S. Sanitary Spec. Corp., 1001 S. California Ave.,  
Chicago 12  
Veneer-O-Wax Corp., 2010-12 Fletcher St., Phila.  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
Walco Prods., Inc., 36 Woodlawn St., Hartford, Conn.

**GLYCERINE (Refined)**

Acme-Hardesty Co., 60 E. 42nd St., N. Y. C.  
Archer-Daniels-Midland Co., Minneapolis  
Armour Chemical Div., Chicago 9  
Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
E. F. Drew & Co., 10 E. 26th St., N. Y. 10  
A. Gross & Co., 295 Madison Ave., N. Y.  
Harchem Div., Wallace & Tiernan, Inc., Box 178,  
Newark, N. J.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland  
Lever Bros. Co., 390 Park Ave., N. Y.  
Los Angeles Soap Co., Los Angeles, Calif.  
Procter & Gamble Distributing Co., Cincinnati  
Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
Shell Chemical Corp., 50 W. 50th St., N. Y. 18  
Swift & Co., Industrial Oil Dept., Hammond, Ind.

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## GLYCERINE PLANTS AND EQUIPMENT

William Garrigue & Co., 9 S. Clinton St., Chicago  
Alan Porter Lee Assoc. 19 South St., Morristown, N. J.  
Project Construction Corp., 39 Broadway, N. Y. 6  
Ernest Scott & Co., Fall River, Mass.  
Swenson Evaporator Co., Harvey, Ill.  
Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

## GLYCERL MONOSTEARATE, Oleate, Etc.

Armour Chem. Div., 1355 W. 31st St., Chicago  
Archer-Daniels-Midland Co., Minneapolis, Minn.  
Carlisle Chemical Works, Reading, O.  
Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
E. F. Drew & Co., 10 E. 26th St., N. Y. 10  
El Dorado Oil Works, P. O. Box 599, Oakland, Calif.  
Emery Industries, Inc., Carew Tower, Cincinnati  
Emulsol Chemical Corp., 59 E. Madison St., Chicago  
Glyco Products Co., 350 5th Ave., N. Y.  
Kessler Chemical Co., State Rd. & Cottman Ave., Phila.  
Knapp Prods., Inc., Lodi, N. J.  
Marchon Prods. Ltd. Whitehaven, Cumberland, Eng.  
Nopco Chemical Co., First & Essex Sts., Harrison, N.J.  
Norco Products Co., E. Ontario & Bath Sts., Phila.  
Swift & Co., Industrial Oil Dept., Ind.  
Van Dyk & Co., Belleville, N. J.

## GLYCOL SPRAYS (Aerosol type for use as deodorizers and sanitizers, ready packaged)

Baird & McGuire, Inc., Holbrook, Mass.  
Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport, Conn.  
Bridgeport Brass Co., Bridgeport, Conn.  
Chase Prods. Co., 1816 St. Charles Rd., Maywood, Ill.  
Chemical Service of Balto., Howard & West Sts., Balto.  
Columbia Chemical Co., 154 E. Erie St., Chicago 11  
Connecticut Chemical Research Corp., Bridgeport 5, Conn.  
Continental Car-Na-Var Corp., Brazil, Ind.  
Continental Filling Corp., 123 N. Hazel St., Danville, Ill.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Hysan Products Co., 932 W. 38th Place, Chicago  
Science Industries, 1509 N. Broadway, St. Louis  
Tru-Pine Co., 7638 Vincennes Ave., Chicago 20  
James Varley & Sons, 1200 Switzer Ave., St. Louis  
G. H. Wood & Co., P. O. Box 344, Toronto, Ont., Canada

## GLYCOLS

Air Reduction Chem., 60 E. 42 St., N. Y. 17  
Amsco Solvents & Chemicals Co., 4619 Reading Road, Cincinnati  
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Buffalo Solvents & Chemicals Corp., Box 73, Station B, Buffalo, N. Y.  
Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17  
Carlisle Chem. Wks., 510 Reading Rd., Reading, O.  
Dixie Solvents & Chems. Co., Dixie Highway at Appleton, Louisville, Ky.  
Dow Chemical Co., Midland, Mich.  
General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
Glyco Products Co., 350 5th Ave., N. Y.  
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis, Ind.  
Jefferson Chemical Co., 260 Madison Ave., N. Y.  
Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis  
Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland  
Olin Mathieson Chem. Corp., Baltimore 3  
Shell Chemical Corp., 50 W. 50th St., N. Y.  
Southern Solvents & Chemicals Co., 1354 Jefferson Highway, New Orleans  
Texas Solvents & Chemicals Co., 8501 Market St., Houston, Tex.  
Van Dyk & Co., 11 Williams St., Belleville, N. J.  
Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee, Wisc.  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

Wolverine Solvents & Chemicals Co., 1500 Century Ave., S.W., Grand Rapids, Mich.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

## GOGGLES (see Gas Masks, etc.)

## GRANULATED SOAPS (see list under Laundry Soaps; Chip Soap)

## GREASE ABSORBENTS (for floors, etc.)

Agri-Indus Mfg. Co., Huntington Bank Bldg., Columbus, Ohio  
Ampion Corp., 4-48 47th Ave., L. I. C., N. Y.  
Atlantic Refining Co., 260 S. Broad St., Phila.  
Chemical Service Co. of Baltimore, Howard & West Sts., Balto.  
Dri-Rite Co., 100 W. Chicago Ave., Chicago 10  
Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8  
Fuld Bros., 702 S. Wolfe St., Baltimore, Md.  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Products Co., 932 W. 38th Pl., Chicago 9  
Johns-Manville Corp., 22 E. 40th St., N. Y. 16  
Frank Miller & Sons, 2250 W. 58th St., Chicago  
Oil-Dri Corp., 520 N. Michigan Ave., Chicago 11  
Old Empire Inc., Mt. Prospect & Verona Aves., Newark, N. J.  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
Tamms Industries, Inc., 228 N. LaSalle St., Chicago  
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

## GREASES (see Tallow)

## GREASES, LUBRICATING (see Petroleum Bases)

## GREEN SOAP (see Potash Soap)

## GRINDING MACHINERY (for milling, pulverizing, etc.)

Abbe Engineering Co., Little Falls, N. J.  
American Pulverizer Co., 18th & Austin Sts., St. Louis  
Consolidated Prods. Co., 59 Garden St., Hoboken, N. J. (Used)  
J. H. Day Co., Harrison Ave. & Bogen St., Cincinnati  
Gründler Patent Crusher & Pulverizer Co., 900 N. First St., St. Louis  
B. F. Gump Co., 1338 S. Cicero Ave., Chicago  
Houchin Machy. Co., Hawthorne, N. J.  
Kent Machine Works, 39 Gold St., Brooklyn  
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago (Used)  
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh  
Poulsen Co., 5957 W. 3rd St., Los Angeles 6  
Pulverizing Machinery Co., Chatham Rd., Summit, N. J.  
Rapids Machinery Co., Marion, Iowa  
Raymond Pulverizing Div., 1314 N. Branch St., Chicago 22  
Reitz Mfg. Co., 150 Todd Rd., Santa Ana, Calif.  
Chas. Ross & Sons, 148 Classon Ave., Brooklyn  
Sprout Waldron & Co., Muncy, Pa.  
Sturtevant Mill Co., Dorchester, Boston 22  
Troy Engine & Mach. Co., Troy, Pa.  
U. S. Stoneware Co., Akron 9, O.  
Williams Patent Crusher & Pulverizer Co., 2700 North Ninth St., St. Louis

## GUMS (oil, spirit soluble; varnish gums) Copal, Congo, Manila, Dammar, etc.)

Archer-Daniels-Midland Co., Minneapolis 2  
Wm. Diehl & Co., 336 42nd St., N. Y. 18  
Gillespie-Rogers-Pyatt Co., 75 West St., N. Y. 16  
O. G. Innes Corp., 82 Wall St., N. Y. 5  
Meer Corp., 318 W. 46th St., N. Y. 36  
T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
Thurston & Braidich, 286 Spring St., N. Y. 13  
J. Meyer & Sons, Philadelphia 40, Pa.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
Wm. H. Scheel, Inc., 38 Franklin St., Bklyn 22

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### GUMS (Water soluble) Arabic, Karaya, Tragacanth, etc.

Dodwell & Co., 120 Wall St., N. Y. 5  
Paul A. Dunkel & Co., 26 Journal Sq., Jersey City, N. J.  
B. F. Goodrich Chem. Co., Cleveland 15  
Hercules Powder Co., 961 Market St., Wilmington  
McKesson & Robbins, Inc., 155 E. 44th St., N. Y. 17  
S. B. Penick & Co., 50 Church St., N. Y. 7  
Meer Corp., 318 W. 46th St., N. Y. 36  
O. G. Innes Corp., 82 Wall St., N. Y.  
Orbis Products Corp., 601 W. 26th St., N. Y. 1  
F. H. Paul & Stein Bros., Inc., 235 Fifth Ave., N. Y.  
Seaplant Chem. Corp., 63 David St., New Bedford, Mass.  
Stein, Hall & Co., 285 Madison Ave., N. Y.  
Thompson-Hayward Chem. Co., 2915 Southwest Blvd.,  
Kansas City 8, Mo.  
Thurston & Braidich, 286 Spring St., N. Y. 13  
Walter H. Jelly & Co., 420 N. Western Ave., Chicago 12  
Tragacanth Importing Corp., 160 Water St., N. Y. 38  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

### GYM-FINISH FLOOR SEAL (see Sealers, Floor)

### HAND CLEANERS (Powdered, Waterless, etc.)

Amaza Laboratories, Macedonia, O.  
Analab Labs., 285 Franklin St., Boston 10  
Banner Chemical Prods. Co., 9 Calumet St., Newark 5,  
N. J.  
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.  
Chicago Sanitary Prod. Co., 3100 S. Throop St., Chi-  
cago 8  
Colorado Soft Water Co., Adams City, Colo.  
Crystal Soap & Chem. Co., 6300 State Rd., Phila.  
Davies-Young Soap Co., Dayton 1, O.  
Essential Chems. Co., 2200 N. 32nd St., Milwaukee 8  
Frontier Chem. Prods. Co., 119 E. Soper St., St. Louis 11  
Fuld Bros., 702 S. Wolfe St., Baltimore 3  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Prods. Co., 923 W. 38th Pl., Chicago  
Knoxall Corp., 1005 E. Sumner Ave., Indianapolis, Ind.  
Kutol Products Co., 2817 Highland Ave., Cincinnati  
R. G. Liner Co., Canton, N. C.  
M & H Laboratories, 2705 Archer Ave., Chicago 8  
Mione Manufacturing Co., Collingdale, Pa.  
Murro Chemical Co., Portsmouth, Va.  
National Sanitary Prods., 3944 Olive St., St. Louis  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey  
City, 2  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St.  
Louis 10  
J. C. Paul & Co., 8140 N. Ridgeway Ave., Stokie, Ill.  
Peck's Products Co., 610 E. Clarence Ave., St. Louis 15  
Radium Hand Soap Co., 2111 N. 35 St., Seattle, Wash.  
Sanders Chem. Co., 2205 N. American St., Phila. 33  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
I. Schneid, Inc., 916 Ashby St., Atlanta, Ga.  
E. B. Snyder Labs., 4450 Leiper St., Phila.  
Sugar Beet Prods. Co., Saginaw, Mich.  
Superior Chem. Prods., 47 N. Second St., Phila. 6  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Trio Chemical Wks., 341 Scholes St., Brooklyn 6  
Utility Co., 636 W. St., N. Y. 26  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
Veneer-O-Wax Corp., 2010-12 E. Fletcher St., Phila.

### HAND CREAMS, (Protective)

Baird & McGuire, Inc., Holbrook, Mass.  
G. Barr & Co., 3601 S. Racine Ave., Chicago  
Chicago Sanitary Prods. Co., 31 S. Throop St., Chicago 8  
Davies Young Soap Co., Dayton, O.  
Eagle Soap Corp., Huntington, Ind.  
Fuld Bros., 702 S. Wolfe St., Baltimore 3  
E. I. du Pont de Nemours Co., Wilmington, Dela.  
R. M. Hollingshead Corp., Camden, N. Y.  
Hysan Products Co., 923 W. 38 Pl., Chicago  
Peck's Prods., Co., 610 E. Clarence Ave., St. Louis 15  
Old Empire, Inc., Mt. Prospect & Verona, Newark, N. J.  
Private Brands, Inc., 300 S. 3rd St. Kansas City Kan.  
Trio Chemical Wks., 341 Scholes St., Bklyn. 6

### HAND DRYERS, ELECTRIC (See Dryers, Hand)

### HAND SOAP, LIQUID (see Potash Soaps)

#### HAND SOAP (Mechanic's Hand Paste)

Aid Soap Mfg. Co., Rochester, Pa.  
Ampion Corp., 4-48 47th Ave., L. I. C., N. Y.  
Analab Laboratories, 285 Franklin St., Boston 10  
Antiseptol Co., 5524 Northwest Highway, Chicago  
Armour Industrial Soap Dept., Chicago 9  
Bilco Chemical Co., 607 DeGraw St., Brooklyn  
Boston Chemical Industries, 64 E. Brookline St., Boston 18  
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
Crystal Chem. Co., 823 Hunterdon St., Newark 8, N. J.  
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
Cudahy Packing Co., 221 N. La Salle St., Chicago  
Davies Young Soap Co., Dayton, O.  
Eagle Soap Corp., Huntington, Ind.  
Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8  
Frontier Chemical Co., 119 E. Soper St., St. Louis 11  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Hammons Products, Inc., 1141 W. Wildwood Ave., Fort Wayne, 2, Ind.  
R. M. Hollingshead Co., Camden, N. J.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
J. Chemical Work, 602 W. 37th St., N. Y. 18  
Knoxall Corp., 1005 E. Sumner Ave., Indianapolis, Ind.  
Kutol Products Co., 2817 Highland Ave., Cincinnati  
Los Angeles Soap Co., 617 E. First St., Los Angeles  
Magna-Krom Prods., 108 Sumner Ave., Vandergrift, Pa.  
Mione Mfg. Co., Collingdale, Pa.  
Murro Chemical Co., Portsmouth, Va.  
National Sanitary Prods., 3944 Olive St., St. Louis  
North Coast Soap & Chem. Wks., Seattle, Wash.  
Oil Kraft, Inc., 3330 Beekman St., Cincinnati  
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark, N. J.  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis, Mo.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis

Procter & Gamble Dist. Co., Cincinnati  
Puritan Chem. Co., Atlanta, Ga.  
Puritan Soap Co., 573 Lyell Ave., Rochester, N. Y.  
Radium Hand Soap Co., 2121 N. 35 St., Seattle, Wash.  
S. & S. Soap Co., 815 E. 135th St., N. Y. 54  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
Science Industries, 1509 N. Broadway, St. Louis  
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland  
E. B. Snyder Labs., 4450 Leiper St., Phila. 24  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Sugar Beet Prods. Co., Saginaw, Mich.  
Swift & Co., Chicago  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Trio Chem. Wks., 341 Scholes St., Bklyn.  
Tru-Pine Co., 7638 Vincennes Ave., Chicago 20  
U. S. Sanitary Spec. Corp., 1001 S. California Ave., Chicago 12  
Utility Co., 636 W. 44th St., N. Y.  
Veneer-O-Wax Corp., 2010-12 Fletcher St., Phila.  
Vliet Soap Co., 638 Monroe St., Brooklyn  
Washine-National-Sands, Inc., 37-02 Northern Blvd., Long Island City  
G. H. Wood & Co., Toronto, Ont., Canada.

#### HAND SOAP, Powdered

Aid Soap Mfg. Co., Rochester, Pa.  
Ampion Corp., 4-48 47th Ave., L. I. C., N. Y.  
Armour Industrial Soap Dept., Chicago 9  
Banner Chem. Prods. Co., 9 Calumet St., Newark, N. J.  
Boston Chemical Industries, 64 E. Brookline St., Boston  
Britex Corp., 17 Lewis Wharf, Boston 10  
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Clarkson Laboratories, 919 N. 9th St., Phila.  
Clifton Chemical Co., 62 William St., N. Y.  
Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
Crystal Chem. Co., 823 Hunterdon St., Newark, N. J.

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 E. F. Drew Co., 15 E. 26th St., N. Y. 10  
 Duveen Soap Corp., 36-14 35th St., Long Island City,  
 N. Y.  
 Eagle Soap Corp., Huntington, Ind.  
 East Coast Soap Corp., 89 Coffey St., Bklyn.  
 J. Eavenson & Sons, Camden, N. J.  
 Essential Chemicals, 2200 N. 32nd St., Milwaukee 8  
 Frontier Chem. Prods., 119 E. Soper St., St. Louis 11  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 Hysan Prods. Co., 932 W. 38th Place, Chicago  
 Kutol Products Co., 2817 Highland Ave., Cincinnati  
 Lightfoot Schultz Co., Hoboken, N. J.  
 R. G. Liner Co., Canton, N. C.  
 Los Angeles Soap Co., 617 E. 1st St., Los Angeles 51  
 Midland Laboratories, Dubuque, Iowa  
 M. & H. Laboratories, 2705 Archer Ave., Chicago  
 Magna-Krom Prods., 108 Sumner Ave., Vandergrift, Pa.  
 Mione Mfg. Co., Collingdale, Penna.  
 Murro Chemical Co., Portsmouth, Va.  
 National Milling & Chem. Co., 4601 Nixon St., Phila. 27  
 New Jersey Chem. Co., Lyndhurst, N. J.  
 G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St.  
 Louis 10  
 Pacific Coast Borax Co., 100 Park Ave., N. Y. 17  
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
 Plunkett Chemical Co., 3500 S. Morgan Ave., Chicago 9  
 Port Huron Detergent Co., Port Huron, Mich.  
 Procter & Gamble Dist. Co., Cincinnati  
 Puritan Chem. Co., Atlanta  
 Puritan Co., 573 Lyell Ave., Rochester, N. Y.  
 Radium Hand Soap Co., 2121 N. 36 St., Seattle, Wash.  
 Rochester Germicide Co., 333 Hollenbeck St.,  
 Rochester 5, N. Y.  
 S. & S. Soap Co., 815 E. 135th St., N. Y. 54.  
 Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
 Science Industries, 1509 N. Broadway, St. Louis  
 Skotch Prods. Corp., 2710 Detroit Ave., Cleveland  
 E. B. Snyder Labs., 4450 Leiper St., Phila. 24  
 John T. Stanley Co., 642 W. 30th St., N. Y.  
 George Stearns Chem. Corp., 4200 E. Mendota St.,  
 Madison, Wisc.  
 Sugar Beet Prods. Co., Saginaw, Mich.  
 Tesco Chemicals, Inc., Atlanta 5, Ga.  
 Theobald Industries, P. O. Box 72, Harrison, N. J.  
 Trio Chem. Wks., 341 Scholes St., Bklyn.  
 The Utility Co., 636-642 W. 44 St., N. Y. 26  
 U. S. Sanitary Specialties Corp., 1001 S. California Ave.,  
 Chicago 12.  
 Warren Soap Mfg. Co., Cambridge, Mass.  
 G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada  
 Allen B. Wrisley Co., 6801 W. 65th St., Chicago  
 Zeen Chemical Co., 2000 Elm St., Cleveland

#### HARD WATER SOAPS (Salt Water Soaps)

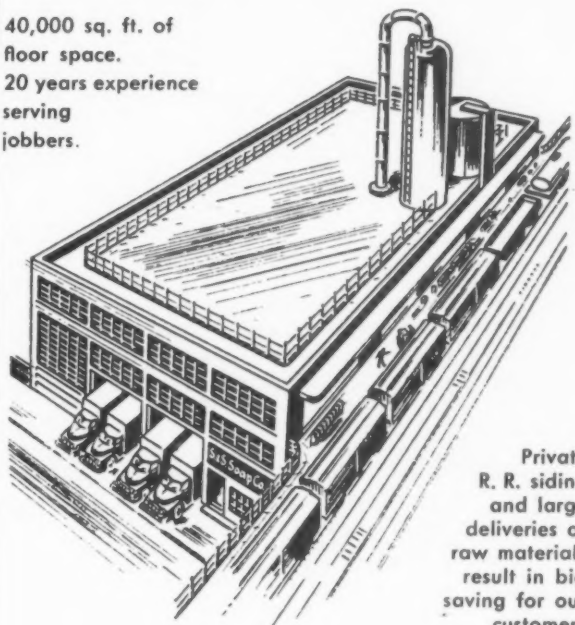
Aid Soap Mfg. Co., Rochester, Pa.  
 Armour Soap Wks., 1355 W. 31st St., Chicago  
 Chemical Service of Balto., Howard & West Sts., Balto.  
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
 James Counts Soap Co., 2nd & Washington Aves., St.  
 Louis  
 Cudahy Packing Co., 221 N. La Salle St., Chicago  
 Duveen Soap Corp., 36-14 35th St., Long Island 6, N. Y.  
 J. Eavenson & Sons, Camden, N. J.  
 Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8  
 James Good, Inc., 2107 Susquehanna Ave., Phila.  
 Harley Soap Co., Pierce & Orthodox Sts., Phila., Pa.  
 Haskins Bros. & Co., Omaha, Neb.  
 Hewitt Soap Co., Dayton, Ohio  
 Higley Chemical Co., Dubuque, Iowa  
 Kamen Soap Products Co., 233 Broadway, N. Y. C.  
 Los Angeles Soap Co., 617 E. 1st St., Los Angeles, Calif.  
 National Soap Co., 357 South 25th St., Tacoma, Wash.  
 North Coast Soap & Chem. Works, Seattle, Wash.  
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
 Procter & Gamble Dist. Co., Cincinnati  
 John T. Stanley Co., 642 W. 30th St., N. Y.  
 Swift & Co., Union Stock Yards, Chicago  
 Theobald Industries, P. O. Box 72, Harrison, N. J.  
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Minneapolis  
S. B. Penick & Co., 50 Church St., N.Y.8  
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Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
John Powell Div., 1 Park Ave., N. Y.  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Victor Chemical Works, 155 N. Wacker Dr., Chicago  
Westvaco Mineral Prods. Div., Food Machy & Chem.  
Corp., 161 E. 42nd St., N. Y. 17

#### HOMOGENIZERS (Dispersion Equipment) (see also Col- loid Mills)

Abbe Engineering Co., Little Falls, N. J.  
Consolidated Prods. Co., 59 Garden St., Hoboken, N. J.  
(Used)  
Eppenbach, Inc., 45-10 Vernon Blvd., Long Island City,  
N. Y.  
Kinetic Dispersion Corp., 95 Botsford Pl., Buffalo, N. Y.  
Manton Gaulin Mfg. Co., 44 Garden St., Everett, Mass.  
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio,  
Italy  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St.,  
Chicago  
Read Standard Corp., York, Pa.

U. S. Stoneware Co., Akron 9, O.  
Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

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Fuld Bros., 702 S. Wolfe St., Baltimore  
James Good, Inc., 2107 Susquehanna Ave., Phila. 25  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.  
J. L. Prescott Co., 27 8th St., Passaic, N. J.  
Science Industries, 1509 N. Broadway, St. Louis  
John T. Stanley Co., Inc., 642 W. 30th St., N. Y.  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Thompson-Hayward Chem. Co., 2915 Southwest Blvd.,  
Kansas City 8, Mo.  
Trio Chemical Wks., 341 Scholes St., Bklyn 6  
Washine-National-Sands, Inc., 37-02 Northern Blvd.,  
Long Island City.

#### HOUSEHOLD INSECTICIDE BASE OILS (see Insecti- cide Base Oils)

#### HOUSEHOLD INSECTICIDES, LIQUID

Ampion Corp., 4-48 47th Ave., L. I. C., N. Y.  
A-M-R Chem. Co., 985 E. 35th St., Bklyn. 10  
Baird & McGuire, Inc., Holbrook, Mass.  
Boston Chemical Industries, 64 E. Brookline St., Boston  
Brilco Labs., 1553 63rd St., Brooklyn  
California Spray-Chemical Corp., Richmond, Calif.  
Chase Products Co., 1816 St. Charles Rd., Maywood, Ill.  
Chemical Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Churchill Mfg. Co., Galesburg, Ill.  
Clifton Chemical Co., 62 Williams St., N. Y.  
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
Douglas Chem. Co., 620 E. 16 Ave., North Kan. City, Mo.  
Eagle Soap Corp., Huntington, Ind.  
Elkay Products Co., 323 W. 16th St., N. Y.

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James Good, Inc., 2107 Susquehanna Ave., Phila.  
Gulf Oil Co., Gulf Bldg., Pittsburgh  
Higley Chemical Co., Dubuque, Iowa  
Hockwald Chemical Co., 135 Mississippi St., San Francisco  
R. M. Hollingshead Corp., Camden, N. J.  
James Huggins & Son, 239 Medford St., Malden, Mass.  
Hunt Mfg. Co., Lisbon Rd., Cleveland  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
K. B. Chem. Co., Dunnell's Lane, Pawtucket, R. I.  
Kemiko Mfg. Co., 500 Chancellor Ave., Irving, N. J.  
Klix Chem. Co., 2460 Third St., San Francisco  
D. S. Lesnever & Son, 213 Summer St., Lynn, Mass.  
M. & H. Laboratories, 2703-5 Archer Ave., Chicago  
Midland Labs., Dubuque, Iowa  
Miller Products Co., Portland 1, Ore.  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
John Opitz, Inc., 50-14-39th St., Long Island City  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Penna. Salt Mfg. Co., Widener Bldg., Phila.  
Perrow Chem. Co., Hurt, Va.  
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.  
Puritan Chem. Co., 916 Ashby St., N. W., Atlanta  
Quinn Drug & Chem. Co., Greenwood, Miss.  
Rex-Cleanwall Corp., Brazil, Ind.  
Schaeffer Mfg. Co., 102 Barton St., St. Louis, Mo.  
Science Industries, 1509 N. Broadway, St. Louis  
Sinclair Refining Co., East Chicago, Ind.  
H. V. Smith & Co., 1910 Univ. Ave., St. Paul, Minn.  
Standard Oil Co., of Calif., San Francisco  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Standard Oil Co. (Ohio), Midland Bldg., Cleveland  
Geo. Stearns Chem. Corp., 4200 S. Mendoza St., Madison, Wis.  
Trio Chem. Wks., 341 Scholes St., Bklyn.  
Tru-Pine Co., 7638 Vincennes Ave., Chicago  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12  
James Varley & Sons, 1200 Switzer Ave., St. Louis  
Virginia-Carolina Chem. Corp., Richmond, Va.  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
G. H. Wood & Co., P. O. Box 344, Toronto, Ont., Canada

## HOUSEHOLD INSECTICIDES, POWDERED

Ampion Corp., 4-48 47th Ave., L. I. C., N. Y.  
A-M-R Chem. Co., 985 E. 35th St., Bklyn 10  
Boston Chemical Industries, 64 E. Brookline St., Boston  
Brilco Labs., 1553 63rd St., Brooklyn 19  
California Spray-Chemical Corp., Richmond, Calif.  
Chemical Service Co. of Baltimore, Howard & West Sts., Baltimore 30, Md.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Clifton Chemical Co., 62 William St., N. Y.  
Eagle Soap Corp., Huntington, Ind.  
Elkay Products Co., 323 W. 16th St., N. Y.  
Exterminating Materials Co., 555 W. 22nd St., N. Y.  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
Higley Chemical Co., Dubuque, Iowa  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
K. B. Chem. Co., Dunnell's Lane, Pawtucket, R. I.  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
D. S. Lesnever & Son, 213 Summer St., Lynn, Mass.  
Midland Labs., Dubuque, Ia.  
Miller Prods. Co., Portland 1, Ore.  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
John Opitz, Inc., 50-14 39th St., L. I. City  
Penna. Salt Mfg. Co., Widener Bldg., Phila.  
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.  
Puritan Chemical Co., 916 Ashby St., N. W., Atlanta  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
Rochester Germicide Co., 333 Hollenbeck St., Rochester 5, N. Y.  
Science Industries, 1509 N. Broadway, St. Louis  
H. V. Smith & Co., 1910 Univ. Ave., St. Paul, Minn.  
Trio Chemical Wks., 341 Scholes St., Bklyn. 6  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
U. S. Sanitary Specialties Corp., 1001 S. Calif. Ave., Chicago 12

Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
Wilkil Company, 1174 S. La Brea Ave., Los Angeles  
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada

## HYDROGENATED OILS

Armour & Co., 1355 W. 31st St., Chicago  
Archer-Daniels-Midland Co., Minneapolis 2  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Eastern Industries, Inc., Ridgefield, N. J.  
Emery Industries, 4300 Carew Tower, Cincinnati  
General Mills, Inc., Chem. Div., Minneapolis 1  
A. Gross & Co., 295 Madison Ave., N. Y. 17  
Harchem Div., Wallace & Tiernan, Inc., Box 178, Newark, N. J.  
Spencer Kellogg & Sons, 98 Delaware Ave., Buffalo, N.Y.  
Procter & Gamble Dist. Co., Cincinnati, O.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Wyandotte Chemicals Co., J. B. Ford Div., Wyandotte, Mich.

## HYDROGENATION PLANTS (see Oil Hydrogenation Plants)

## HYDROXYETHYL CELLULOSE

-Carbide & Carbon Chem. Co., 30 E. 42nd St., N. Y. 17  
Dow Chem. Co., Midland, Mich.  
Hercules Powder Co., 961 Market St., Wilmington, Dela.

## HYDROSULFITES (Soap Bleaches)

Dow Chemical Co., Midland, Mich.  
General Chem., Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
Rohm & Haas Co., Inc., 222 W. Washington Sq., Phila.  
Royce Chem. Co., Carlton Hill, N. J.  
Jos. Turner & Co., Ridgefield, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

## HYPOCHLORITES (see Chlorine) (see Laundry Bleach)

## INSECT POWDER GUNS (see Dusters for Insecticide Powder)

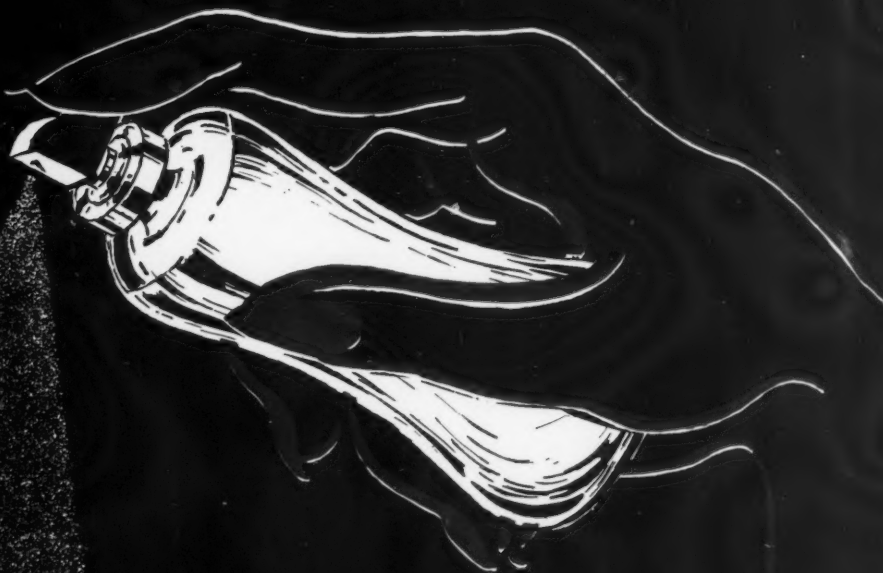
## INSECT REPELLENTS

A-M-R Chemical Co., 985 E. 35th St., Brooklyn 10  
Baird & McGuire, Inc., Holbrook, Mass.  
Barret Div., Allied Chem. & Dye Corp., N. Y. 6  
Bridgeport Brass Co., Bridgeport 2, Conn.  
California Spray-Chemical Corp., Richmond, Calif.  
Chase Prods. Co., 1816 St. Charles Rd., Maywood, Ill.  
Connecticut Chem. Research Corp., Bridgeport, Conn.  
Diamond Alkali Co., Union Commerce Bldg., Cleveland 14  
Crystal Soap & Chem. Co., 6300 State Rd., Phila.  
Continental Car-Na-Var Corp., Brazil, Ind.  
Dow Chemical Co., Midland, Mich.  
Eagle Soap Corp., Huntington, Ind.  
Fairfield Chem. Div., 420 Lexington Ave., N. Y. 17  
Fuld Bros., Inc., 702 S. Wolfe St., Baltimore  
Hysan Products Co., 932 W. 38th Pl., Chicago  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh 19  
D. S. Lesnever & Son, 213 Summer St., Lynn, Mass.  
Michigan Chem. Corp., St. Louis, Mich.  
Midland Laboratories, Dubuque, Iowa  
Monsanto Chemical Co., St. Louis 4  
Old Empire Inc., Mt. Prospect & Verona Ave., Newark, N. J.  
Pennsylvania Salt Mfg. Co., Widener Bldg., Phila. 7  
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.  
Puro Co., 2801 Locust St., St. Louis  
Tru-Pine Co., 7638 Vincennes Ave., Chicago  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Van Dyk & Co., Belleville, N. J.  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23

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American Nexa Corp., 342 Madison Ave. N. Y.  
Continental Chemiste Coup., 2256 W. Ogden Av., Chgo.  
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Amsco Solvents & Chems. Co., 4619 Reading Rd., Cincinnati  
Anderson-Prichard Oil Corp., Oklahoma City, Okla.  
Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Beacon Oil Co., Everett, Mass.  
Buffalo Solvents & Chems. Corp., P. O. # 73, Sta. B Buffalo, N. Y.  
Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago  
Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
Gulf Oil Co., Gulf Bldg., Pittsburgh  
Hoosier Solvents & Chems. Corp., 1650 Luett St., Indianapolis  
Nopco Chemical Co., First & Essex Sts., Harrison, N.J.  
Ohio Solvents & Chems. Co., 3470 W. 140 St., Cleveland  
**Pennsylvania Refining Co., Butler, Pa.**  
Missouri Solvents & Chems. Co., 419 DeSoto, St. Louis  
Sherwood Refining Co., Englewood, N. J.  
Sinclair Chemicals, Inc., 630 Fifth Ave., N. Y.  
Skelly Oil Co., Skelly Bldg., Kansas City, Mo.  
L. Sonneborn Sons, 300 4th Ave., N. Y. 10  
Standard Oil Co. (Calif.), 225 Bush St., San Francisco  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Standard Oil Co. (N. J.), 26 Broadway, N. Y.  
Sun Oil Co., 1608 Walnut St., Philadelphia  
Texas Co., 135 E. 42nd St., N. Y.  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
**Jos. Turner & Co., Ridgefield, N. J.**  
Wisconsin Solvents & Chem. Corp., 1719 S. 83 St., Milwaukee  
Wolverine Solvents & Chems. Co., 1500 Century Ave., SW, Grand Rapids, Mich.

**INSECTICIDE CONCENTRATES, Synthetic (see also Allethrin)**

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. 20  
American Potash & Chemical Co., 3100 E. 26th St., Los Angeles  
California Spray-Chemical Corp., Richmond, Calif.  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
Chipman Chem. Co., Bound Brook, N. J.  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
Diamond Alkali Co., Union Commerce Bldg., Cleveland  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Fairfield Chemical Div., 420 Lexington Ave., N. Y. 17  
General Chem. Div., Allied Chemical & Dye Corp., 40 Rector St., N. Y. 6  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
B. F. Goodrich Chem. Co., 2060 E. 9 St., Cleveland  
Hercules Powder Co., 961 Market St., Wilmington, Del.  
Shell Chemical Corp., 50 W. 50 St., N. Y. 20  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh 19  
McLaughlin, Gormley, King Co., 1715 5th St., S.E., Minneapolis 14  
Michigan Chemical Corp., St. Louis, Mich.  
Penna. Salt Mfg. Co., Widener Bldg., Phila.  
S. B. Penick & Co., 50 Church St., N. Y. 8  
Pittsburgh Coke & Chem. Co., 2000 Grant Bldg., Pittsburgh  
John Powell Div., 1 Park Ave., N. Y.  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Rohm & Haas, Inc., 222 W. Washington Sq., Phila.  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Velsicol Corp., 330 E. Grand Ave., Chicago  
Virginia-Carolina Chem. Corp., Richmond 8, Va.  
Westvaco Chem. Div., Food Machy. & Chem. Corp., 161 E. 42nd St., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

**INSECTICIDE SPRAY PERFUMES (see Also Perfuming Compounds)**

Aromatic Products, Inc., 15 E. 30th St., N. Y.  
Antoine Chiris Co., 212 E. 23rd St., N.Y.  
Dodge & Olcott, Inc., 180 Varick St., N. Y.  
Dow Chemical Co., Midland, Mich.  
P. R. Dreyer, Inc., 601 W. 26th St., N. Y.  
Felton Chemical Co., 603 Johnson Ave., N. Y. C.

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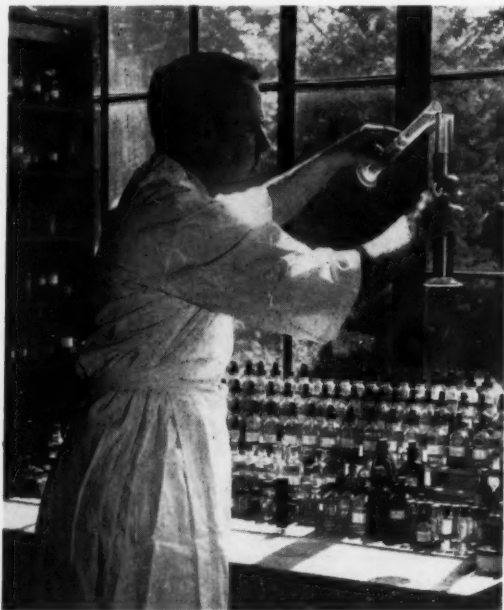


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Firmenich, Inc., 250 W. 18th St., N. Y.  
Florasynt Laboratories, 900 Van Nest Ave., N. Y.  
Benj. French, Inc., 160 Fifth Ave., N. Y. C.  
Fritzsche Bros., Inc., 76 Ninth Ave., N. Y.  
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.  
Gunning & Gunning, 601 W. 26th St., N. Y.  
D. W. Hutchinson & Co., 700 S. Columbus Ave., Mt.  
Vernon, N. Y.  
Geo. Lueders & Co., 427 Washington St., N. Y. C.  
Lautier Fils, Inc., 321 5th Ave., N. Y. C.  
Magnus, Mabée & Reynard, Inc., 16 Desbrosses St., N. Y.  
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.  
Orbis Products Corp., 601 W. 26th St., N. Y.  
S. B. Penick & Co., 50 Church St., N. Y. 8  
Perry Bros., Inc., 220 Flushing Ave., Brooklyn  
Polak's Frutal Works, 33 Sprague Ave., Middletown, NY  
Polak & Schwarz, Inc., 667 Washington St., N. Y.  
Reynaud, Ltd., 355 W. 52nd St., N. Y. 19  
Roubechez, Inc., 8 E. 12th St., N. Y.  
Schimmel & Co., 601 W. 26th St., N. Y.  
Shulton, Inc., Fine Chemicals Div., 630 Fifth Ave., N. Y.  
Synfleur Scientific Labs., Monticello, N. Y.  
Syntomatic Corp., 114 E. 32nd St., N. Y.  
Tombarel Prods. Corp., 725 Broadway, N. Y. 3  
Ungerer & Co., 161 Ave. of Americas, N. Y. 13  
van Ameringen-Haebler, Inc., 521 W. 57th St., N. Y. 19  
Van Dyk & Co., Belleville, N. J.  
Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.  
Verona Chem. Co., 25 Verona Ave., Newark, N. J.

INSECTICIDE SPREADERS (see Agricultural Insecticide  
Spreaders)

INSECTICIDE VAPORIZERS (see Vaporizers, insecti-  
cide)

INSECTICIDES (see Household Insecticides, Agricultural  
Insecticides)

INSTRUMENTS, Meter, Gauges, Thermometers, Etc.

Bailey Meter Co., 1050 Ivanhoe Rd., Cleveland  
Bausch & Lomb Optical Co., Rochester, N. Y.  
Bristol Co., Waterbury, Conn.  
Brown Instrument Co., Wayne & Windrim Sts., Phila.  
Buffalo Meter Co., 2890 Main St., Buffalo, N. Y.  
Cambridge Instrument Co., 3732 Grand Cent. Term.,  
N. Y.  
G. M. Davis Regulator Co., 2541 S. Washtenaw, Chicago  
Foxboro Co., Foxboro, Mass.  
Precision Thermometer Co., 1434 Brandywine St., Phila.  
Republic Flow Meters Co., 2240 Diversey Blvd., Chicago  
E. W. Schultheis Corp., 812 Wyckoff Ave., Bklyn.  
W. A. Taylor & Co., 7300 York Rd., Baltimore  
Taylor Instrument Co., Rochester, N. Y.  
Arthur H. Thomas Co., West Washington Sq., Phila-  
delphia 5, Pa.  
U. S. Testing Co., 1415 Park Ave., Hoboken, N. J.

ISO-PROPYL ALCOHOL (see Alcohol, Iso-Propyl)

JACKETED KETTLES (see Kettles)

JARS, GLASS (see Bottles and Jars)

JASMIN, ARTIFICIAL (see Aromatic Chemicals)

KAOLIN (see Clays)

KEROSENE (see Insecticide Base Oils)

KETTLES

Allied Steel & Equipment Co., Chester, N. J.  
Alloy Prods. Corp., 221 Madison St., Waukesha, Wis.  
Alsop Engineering Corp., Milldale, Conn.  
Bethlehem Foundry & Mach. Co., Grand Cent. Bldg.,  
N. Y.  
S. Blickman, Inc., 72 Gregory Ave., Weehawken, N. J.  
Conn & Co., Warren, Pa.  
Consolidated Prods. Co., 59 Garden St., Hoboken, N. J.  
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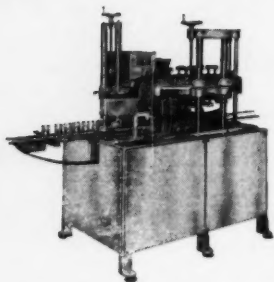
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Edge Moor Iron Wks., 30 Rockefeller Plaza, N. Y.  
Filpaco Industries, 2464 S. Michigan Ave., Chicago  
Houchin Machinery Co., Hawthorne, N. J.  
Industrial Process Engineers, 8 Lister Ave., Newark 5,  
N. J.  
Lancaster Iron Works, 564 S. Prince St., Lancaster, Pa.  
Littleford Bros., 443 E. Pearl St., Cincinnati  
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio,  
Italy  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
Chicago  
Pfaudler Co., 1000 West St., Rochester, N. Y.  
Poulsen Co., 5957 W. 3rd St., Los Angeles  
Read Standard Corp., York, Pa.  
Geo. G. Rodgers Co., 2401 Third Ave., N. Y.  
Chas. Ross & Son Co., 148 Classon Ave., Brooklyn 5  
Sowers Mfg. Co., 1296 Niagara St., Buffalo, N. Y.  
Struthers-Wells Co., Warren, Pa.  
U. S. Stoneware Co., Akron 9, O. (Porcelain)

KIESELGUHR (Infusorial Earth) (see Abrasives and  
Fillers)

KITS (Metal) (see Pails, Metal)

KNEADERS (see Mixing Machinery)

### LABELS

American Lithographic Co., 85 N. 3rd St., Brooklyn  
Castle Island Press, 5417 Monroe St., Chicago 44  
Dennison Mfg. Co., Framingham, Mass.  
Foxon Co., Providence, R. I.  
Henderson Lithographing Co., Norwood, Cincinnati  
R. J. Kittredge Co., 812 W. Superior St., Chicago  
Label Craft Co., 508 W. Broadway, N. Y.  
Lehmann Printing and Lithographing Co., 300 2nd St.,  
San Francisco  
Meyercord Co., 5323 W. Lake St., Chicago  
Strobridge Lithographing Co., Cincinnati  
U. S. Printing & Litho Co., Cincinnati, O.

### LABELING MACHINES (Bottles and Cans)

Alsop Engineering Corp., Milldale, Conn.  
Burt Machine Co., Baltimore, Md.  
Chisholm-Ryder Co. of Pa., Hanover, Pa.  
Consolidated Prods. Co., 59 Garden St., Hoboken, N. J.  
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Economic Machinery Corp., 60 Fremont St., Worcester,  
Mass.  
Economic Machinery Corp., Worcester, Mass.  
Filpaco Industries, 2464 S. Michigan Ave., Chicago  
Hornney & Co., 420 Lexington Ave., N. Y.  
Mandel Products, 207 Astor St., Newark, N. J.  
M. R. M. Co., 191 Berry St., Brooklyn  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St.,  
Chicago (Used)  
New Jersey Machine Corp., Hoboken, N. J.  
Package Mch. Co., East Longmeadow, Mass.  
Pneumatic Scale Corp., North Quincy, Mass.  
Potdevin Machine Co., 200 North St., Teterboro, N. J.  
Scientific Filter Co., 59 Rose St., N. Y.  
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Stokes & Smith Co., 4915 Summerdale Ave., Phila.

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Newman Tallow & Soap Mach. Co., 1051 W. 35th St.,  
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New Jersey Machine Corp., Hoboken, N. J.  
Pneumatic Scale Corp., North Quincy, Mass.

Potdevin Machine Co., 200 North St., Teterboro, N. J.  
Scientific Filter Co., 59 Rose St., N. Y.  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.

#### LABORATORIES, TESTING

Carl N. Anderson, 342 Madison Ave., N. Y. 17  
Louis C. Barail, 10 E. 43 St., N. Y. 17  
Entomological Testing Labs., 1 Park Ave., N. Y. 16  
Hudson Laboratories, Inc., 117 W. 13th St., N. Y. 11  
Illinois Chemical Labs., Gridley, Ill.  
Kroner Laboratories, Inc., 275 Water St., N. Y. 7  
J. W. McCutcheon, Inc., 475 Fifth Ave., N. Y.  
Molnar Laboratories, 211 E. 19th St., N. Y.  
Alan Porter Lee Associates, 19 South St., Morristown, N. J.  
Paul H. Scrutchedfield, 1237 Church St., Hannibal, Mo.  
Seil, Putt & Rusby, 16 E. 34th St., N. Y.  
Foster D. Snell, 29 W. 15th St., N. Y.  
Stillwell & Gladding, 130 Cedar St., N. Y.  
United States Testing Co., 1415 Park Ave., Hoboken, N. J.  
Wisconsin Alumni Research Foundation, Madison, Wis.

#### LABORATORY ANIMALS

Albino Farms, Red Bank, N. J.  
Breeding & Lab. Inst., 619 Kent Ave., Brooklyn  
Foster D. Snell, 29 W. 15th St., N. Y. 11

#### LABORATORY APPARATUS AND EQUIPMENT

Atlas Electric Devices Co., 4114 N. Ravenswood Ave., Chicago  
Cargille Scientific, Inc., 117 Liberty St., N. Y. 6 (chlorine and quaternary test kits)  
Central Scientific Co., 1700 W. Irving Pk., Chicago  
J. H. Day Co., Inc., Cincinnati 22 (roller mills)  
Harry W. Dietert Co., 9330 Roselawn Ave., Detroit (device for determining moisture content)  
Ertel Engineering Corp., West Front St., Kingston, N. Y. (Filters)  
Fisher Scientific Co., Pittsburgh  
Emil Greiner Co., 161 Avenue of Americas, N. Y.  
Kent Machine Wks., 37 Gold St., Brooklyn (roller mills)  
Laboratory Construction Co., 111 Holmes St., Kansas City, Mo.  
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J. (mills and plodders)  
Chas. Ross & Son Co., 148 Classon Ave., Brooklyn 5 (roller mills and mixers)  
Scientific Materials Co., Pittsburgh  
Arthur H. Thomas Co., Wash. Sq., Phila. (emulsion testing)  
U. S. Stoneware Co., Akron 9, O. (Ball Mills)  
U. S. Testing Co., 1415 Park Ave., Hoboken, N. J.  
Versenes, Inc., Waverley St., Framingham, Mass. (water hardness test kits)  
Will Corp., Rochester, N. Y.

#### LABORATORY CHEMICALS

J. T. Baker Chemical Co., Phillipsburg, N. J.  
E. I. du Pont de Nemours & Co., Wilmington  
Fine Organics, Inc., 211 E. 19th St., N. Y. 3  
Fisher Scientific Co., 717 Forbes St., Pittsburgh  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland  
Mallinckrodt Chemical Works, 3600 N. 2nd St., St. Louis  
Merck & Co., Rahway, N. J.

#### LABORATORY TESTING EQUIPMENT (see Apparatus and Equipment)

#### LAMBSWOOL DISCS (for Floor Machines)

American Standard Manufacturing Co., 2509-2513 South Green Street, Chicago 8, Illinois  
Beverly Manufacturing Co., 494 Main St., Boston 29

## A FUNCTIONAL CHECK LIST of

### DIVERSIFIED LABORATORY SERVICES

#### BACTERIOLOGY

Bacteria, mold and yeast counts.  
Evaluation of: Disinfectants, Fungicides, Sanitizers. Phenol coefficients. Coliform tests. Food products: Inspection of production facilities.

#### TOXICOLOGY

Acute toxicity evaluations by National Safety Council recommended procedures. Skin irritation, Skin penetration, Animal feeding, Inhalation, Eye damage.

#### MYCOLOGY

Mildew (fungus) resistance tests: Environmental, Soil burial, Pure culture.

#### ASSAYS

Antibiotics, Vitamins, Amino acids.

#### CHEMICAL ANALYSIS and PHYSICO-CHEMICAL EVALUATION of:

Abrasives & Fillers, Insecticides, Household Cleaning Compounds, Bleaching Agents, Soaps & Soap Products, Industrial Cleaning Compounds, Alkaline & Synthetic Detergents, Essential Oils, Cosmetics, Floor Waxes, Gums & Resins, Oils, Fats & Waxes, Furniture & Metal Polishes, Rugs & Upholstery Cleaners, Sulfonated & Sulfated Oils.

#### PRODUCT EVALUATION

#### PRODUCT CERTIFICATION

#### PSYCHOMETRIC TESTING

A new yardstick for measurement of the excellence of your product.  
A control panel of subjects under the direction and supervision of a staff of trained psychologists working with other trained specialists are ready to "react" to your product scientifically and impartially.



Write for prices, please.

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# Free-Flowing

## POWDERED LANOLIN SOAP

Powdered anhydrous free-flowing lanolin soap is new. LANOMAL\* (1 & 2) means easier, less costly "lanolizing" of powdered and cake soap.

LANOMAL is added by direct mixing, simplifying production blending.

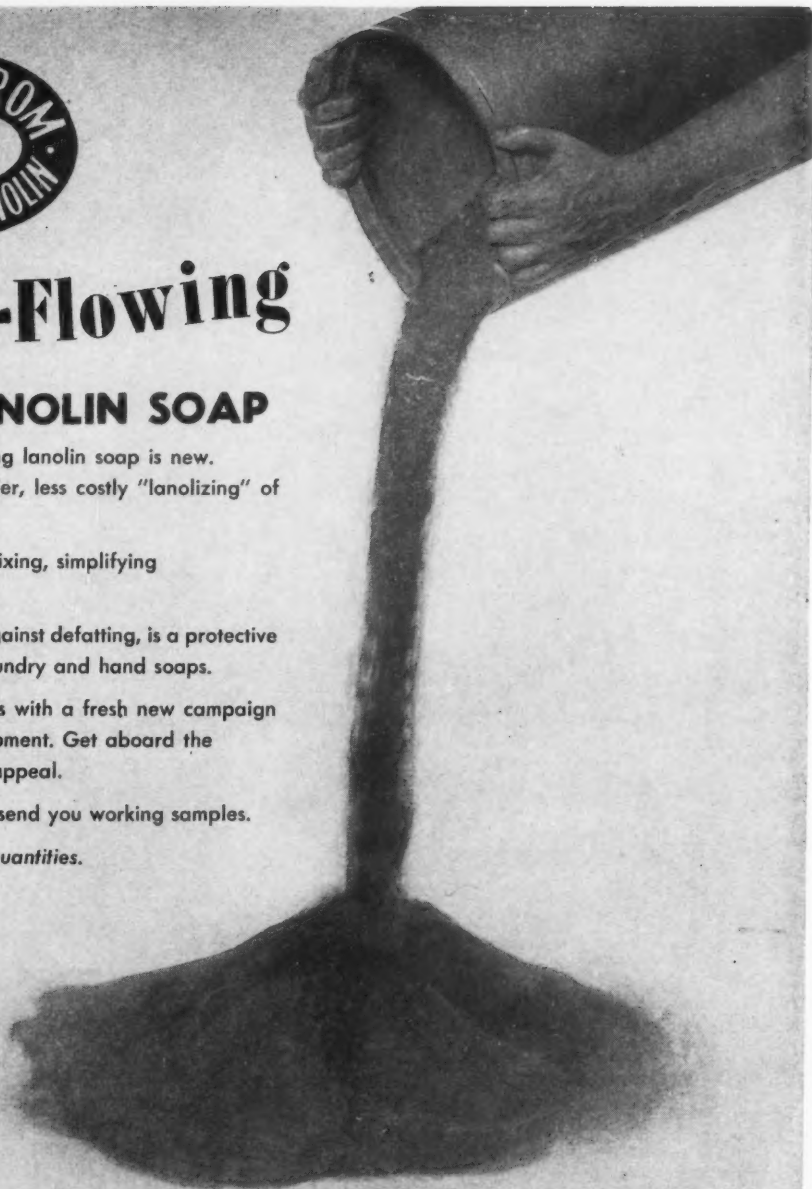
LANOMAL (1 & 2) safeguards against defatting, is a protective for those allergic to ordinary laundry and hand soaps.

Now is the time for adding sales with a fresh new campaign based on the LANOMAL development. Get aboard the driving force of proven lanolin appeal.

Call or write—we'll be happy to send you working samples.

Prompt delivery in commercial quantities.

\*NIMCO POWDERED LANOLIN SOAP



Unretouched photograph of free-flowing powdered LANOMAL

## N. I. MALMSTROM & CO.

America's Largest Processor of Wool Fat and Lanolin

147 Lombardy St., Brooklyn 22, N. Y.

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### TYPICAL ANALYSIS (WHEN PACKED)

LANOMAL SOAP #1 (POWDERED)	LANOMAL SOAP #2 (POWDERED)
Lanomal-Soap #1 is a prepared free flowing powdered product manufactured by blending 25% of Bentonite with 75% of "Lanolin Soap", with the following typical analysis:	
Moisture . . . . . 2.5%	Moisture . . . . . 1%
Unsap. (Lanolin Alcohols) 34.0%	Unsaponifiables (Lanolin Alcohols) . 5%
Sodium Soap . . . . . 63.5%	Sodium Soap . . . . . 94%
Combined Sodium Oxide 7.8%	Combined Sodium Oxide . . . . . 11%
Saponified Lanolin . . . . . 55.7%	Saponified Lanolin Fatty Acids . . . . . 83%
Free Alkali . . . . . None	Free Alkali . . . . . None
Ph. of 5% aqueous solution . . . . . 9.5-10.0	Ph. of 5% aqueous solution . . . . . 9.5-10.0
Packing: 300# bbls. or fibre containers.	



## LANOLIN

Aceto Chem. Co., 40-40 Lawrence St., Flushing, N. Y.  
 American Lanolin Corp., Lawrence, Mass.  
 Bopf-Whittam Corp., 1143 Elizabeth Ave., W. Linden, N. J.  
 Botany Worsted Mills, Dayton Ave., Passaic, N. J.  
 Frank G. Fanning Co., 352 Doremus Ave., Newark, N. J.  
 R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.  
 Griffin Chem. Co., 1000 16th St., San Francisco  
 Hummel Chemical Co., 50 West St., N. Y.  
 Lanaetex Products, Inc., 151 3rd Ave., Elizabeth, N. J.  
 N. I. Malmstrom & Co., 147 Lombardy St., Brooklyn  
 Merck & Co., Rahway, N. J.  
 Pfaltz & Bauer, Inc., 350-5th Ave., N. Y.  
 Robinson-Wagner Co., 110 E. 42nd St., N. Y.  
 Rosenthal Berrow Co., 23 E. 26th St., N. Y.  
 Welch, Holme & Clark Co., 439 West St., N. Y.

## LARD OIL

Armour & Co., 1355 W. 31 St., Chicago  
 E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
 Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago  
 Norco Prods. Co., E. Ontario & Bath Sts., Phila.  
 Theobald Industries, P. O. Box 72, Harrison, N. J.  
 Jos. Turner & Co., Ridgefield, N. J.  
 Swift & Co., Industrial Oil Dept., Hammond, Ind.  
 Welch, Holme & Clark Co., 439 West St., N. Y.

## LAUNDRY BLEACH (Sodium Hypochlorite)

American Soap & Washoline Co., Cohoes, N. Y.  
 Columbia-Southern Chem. Corp., Pittsburgh  
 Cowles Chemical Co., 7016 Euclid Ave., Cleveland  
 General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
 Hysan Products Co., 932 W. 38th Place, Chicago  
 H. Kohnstamm & Co., 91 Park Pl., N. Y.  
 Legrand Bleach Corp., 111-49th St., Brooklyn  
 Magna-Krom Prods., 108 Sumner Ave., Vandergrift, Pa.  
 Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
 Olin Mathieson Chemical Corp., Baltimore 3  
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
 Penna. Salt Mfg. Co., Widener Bldg., Phila.  
 J. L. Prescott Co., 27 8th St., Passaic, N. J.  
 Rosenthal Berrow Co., 23 E. 26th St., N. Y.  
 George Stearns Chem. Corp., 4200 E. Mendota St., Madison, Wisc.  
 Theobald Industries, P. O. Box 72, Harrison, N. J.  
 Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City 8, Mo.  
 Jos. Turner & Co., Ridgefield, N. J.  
 Washine-National-Sands, Inc., 37-02 Northern Blvd., Long Island City  
 Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

## LAUNDRY BLUE

American Cyanamid Co., Bound Brook, N. J.  
 Cowles Chemical Co., 7016 Euclid Ave., Cleveland  
 Diamond Alkali Co., Union Com. Bldg., Cleveland 14  
 E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
 Fezandie & Sperrle, 205 Fulton St., N. Y.  
 General Dyestuff Co., Div. General Aniline & Film Corp., 435 Hudson St., N. Y.  
 Hilton-Davis Chemical Co., 2235 Langdon Farm Rd., Cincinnati  
 H. Kohnstamm & Co., 91 Park Pl., N. Y.  
 National Aniline Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
 Penna. Salt Mfg. Co., Widener Bldg., Phila.  
 Pylam Products Co., 799 Greenwich St., N. Y.  
 Washine-National-Sands, Inc., 37-02 Northern Blvd., Long Island City

## LAUNDRY SOAP, CAKE

Aid Soap Mfg. Co., Rochester, Pa.  
 Albany Soap Corp., 46 Delaware Ave., Albany 3, N. Y.  
 American Soap & Washoline Co., Cohoes, N. Y.  
 Armour Industrial Soap Dept., Chicago 9  
 Beach Soap Co., Lawrence, Mass.  
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8  
 Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
 Cudahy Packing Co., 221 N. La Salle St., Chicago  
 Du Bois Soap Co., Cincinnati, O.  
 East Coast Soap Corp., 89 Coffey St., Bklyn.  
 J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.  
 Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8  
 Fels & Co., 73rd St. & Woodland Ave., Philadelphia  
 Hewitt Soap Co., Dayton, O.  
 Kamen Soap Products Co., 233 Broadway, N. Y. 7  
 Knolar Prods., Inc., 17th & Federal Sts., Camden, N. J.  
 Lever Bros. Co., 390 Park Ave., N. Y.  
 Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
 Long Island Soap Co., Meeker Ave., & Bridgewater St., Brooklyn  
 Los Angeles Soap Co., 617 E. 1st St., Los Angeles, Calif.  
 Manhattan Soap Co., Bristol, Pa.  
 Murro Chemical Co., Portsmouth, Va.  
 National Milling & Chem. Co., 4601 Nixon St., Phila.  
 National Soap Co., 357 S. 25th St., Tacoma, Wash.  
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
 Procter & Gamble Dist. Co., Cincinnati  
 North Coast Chem. & Soap Wks., Seattle, Wash.  
 Standard Soap Co., Camden, N. J.  
 John T. Stanley Co., 642 W. 30th St., N. Y.  
 Swift & Co., Union Stock Yards, Chicago  
 Vliet Soap Co., 638 Monroe St., Brooklyn, N. Y.  
 Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.  
 Allen B. Wisley Co., 6801 W. 65th St., Chicago, Ill.

## LAUNDRY SOAP, CHIP

Aid Soap Mfg. Co., Rochester, Pa.  
 Albany Soap Corp., 46 Delaware Ave., Albany 3, N. Y.  
 American Soap & Washoline Co., Cohoes, N. Y.  
 Armour Industrial Soap Dept., Chicago 9  
 Beach Soap Co., Lawrence, Mass.  
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8  
 Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
 Cudahy Packing Co., 221 N. La Salle St., Chicago  
 E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
 Du Bois Soap Co., Cincinnati, O.  
 J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.  
 Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8  
 Harris Soap Co., Buffalo, N. Y.  
 Hewitt Soap Co., Dayton, Ohio  
 Kamen Soap Products Co., 233 Broadway, N. Y. C.  
 Knolar Prods. Inc., 17th & Federal, Camden, N. J.  
 Lever Bros. Co., 390 Park Ave., N. Y.  
 Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
 Long Island Soap Co., Meeker Ave., & Bridgewater St., Brooklyn  
 Los Angeles Soap Co., 617 E. 1st St., Los Angeles, Calif.  
 Nat'l Milling & Chem. Co., 4601 Nixon St., Phila. 27  
 National Soap Co., 357 South 25th St., Tacoma, Wash.  
 North Coast Soap & Chem. Wks., Seattle, Wash.  
 Original Bradford Soap Wks., West Warwick, R. I.  
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
 Procter & Gamble Distributing Co., Cincinnati  
 Standard Soap Co., Camden, N. J.  
 John T. Stanley Co., 642 W. 30th St., N. Y.  
 Swift & Co., Union Stock Yards, Chicago  
 Theobald Industries, P. O. Box 72, Harrison, N. J.  
 Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.  
 Allen B. Wisley Co., 6801 W. 65th St., Chicago Ill.

## LAUNDRY SOAP, POWD. AND GRAN.

Aid Soap Mfg. Co., Rochester, Pa.  
 Albany Soap Corp., 46 Delaware Ave., Albany 3, N. Y.  
 American Soap Powder Wks., 100 Van Dyke St., Brooklyn, N. Y.  
 American Soap & Washoline Co., Cohoes, N. Y.

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**GOLD MEDAL** An economical, tan colored pure vegetable oil soap of medium titer for industrial hand soaps blended with corn cobs. Soluble at relatively low temperatures, medium titer, 95% anhydrous soap.

**POWDERED COCONUT OIL** Unavailable from most sources, this pure white, medium titer soap gives high, quick suds. Widely used for fine blends in industrial hand soap—as a lubricant for chains and conveyors. 92% anhydrous soap.



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CHICAGO 9, ILLINOIS**

## LAUNDRY SOAP, POWDERED & GRANULATED (Contd.)

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Beach Soap Co., Lawrence, Mass.  
Chicago Sanitary Prods., 3100 S. Throop St.,  
Chicago 8  
Colgate-Palmolive Co., 105 Hudson St., Jersey City,  
N. J.  
Cowles Chemical Co., 7016 Euclid Ave., Cleveland, Ohio  
Cudahy Packing Co., 221 N. LaSalle St., Chicago  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Du Bois Soap Co., Cincinnati, O.  
Eagle Soap Corp., Huntington, Ind.  
J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.  
Essential Chem. Co., 2200 N. 32nd St., Milwaukee 8  
General Biochemicals, Inc., Chagrin Falls, O.  
Hewitt Soap Co., Dayton, Ohio  
Kamen Soap Products Co., 233 Broadway, N. Y. C.  
Knolar Prods., Inc., 17th & Federal Sts., Camden, N. J.  
Lever Bros. Co., 390 Park Ave., N. Y.  
Los Angeles Soap Co., 617 E. 1st St., Los Angeles, Calif.  
Miranol Chemical Co., 277 Coit St., Irvington, N. J.  
Murro Chemical Co., Portsmouth, Va.  
National Milling & Chem. Co., 4601 Nixon St., Phila. 27  
National Soap Co., 357 South 25th St., Tacoma, Wash.  
Nopco Chem. Co., Harrison, N. J.  
North Coast Soap & Chem. Wks., Seattle, Wash.  
Original Bradford Soap Wks., West Warwick, R. I.  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St.  
Louis 10  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Port Huron Detergent Co., Port Huron, Mich.  
Procter & Gamble Distributing Co., Cincinnati  
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland  
Standard Soap Co., Camden, N. J.  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Stevens Soap Corp., 200 Sullivan St., Brooklyn  
Swift & Co., Union Stock Yards, Chicago  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Warren Soap Mfg. Co., 51 Waverly St., Cambridge,  
Mass.  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago, Ill.  
Chas. W. Young & Co., 1247 N. 26th St., Phila.

## LAUNDRY SODA (see Soda)

## LAUNDRY SOURS (Fluoride, etc.)

American Fluoride Corp., 151 W. 19th St., N. Y.  
Blockson Chemical Co., Joliet, Ill.  
Diamond Alkali Co., Union Commerce Bldg., Cleveland  
14  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington  
General Chem. Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland  
H. Kohnstamm & Co., 91 Park Pl., N. Y.  
National Milling & Chemical Co., 4601 Nixon St., Phila.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Penna. Salt Mfg. Co., Widener Bldg., Phila.  
Port Huron Detergent Co., Port Huron, Mich.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
John T. Stanley Co., 642 W. 30th St., N. Y. C.  
Henry Sundheimer, Inc., 103 Park Ave., N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte,  
Mich.  
Chas. W. Young & Co., 1247 N. 26th St., Phila.

## LAVENDER OIL (see Essential Oils)

## LAURIC ACID (see also Fatty Acids)

Archer-Daniels-Midland Co., Minneapolis 2  
Armour Chemical Division, 1355 W. 31st., Chicago  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
El Dorado Oil Wks., P. O. Box 599, Oakland, Calif.  
General Mills, 400 S. 2nd Ave., S. Minneapolis 1  
Griffin Chem. Co., 100 16th St., San Francisco, Calif.  
A. Gross & Co., 295 Madison Ave., N. Y. 17  
Harchem Div., Wallace & Tiernan, Inc., Box 178,  
Newark, N. J.

Robinson Wagner Co., 110 E. 42nd St., N. Y.  
Swift & Co., Chicago  
Welch, Holme & Clark Co., 439 West St., N. Y. 14  
Woburn Chemical Corp., Harrison, N. J.  
G. S. Ziegler & Co., 99 Church St., N. Y. 17

## LAURYL ALCOHOL

Aceto Chem. Co., 40-40 Lawrence St., Flushing, N. Y.  
American Alcolac Corp., 3440 Fairfield Rr., Balto. 26  
Archer-Daniels-Midland Co., Minneapolis 2  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y. C.  
M. Michel & Co., 90 Broad St., N. Y.  
Marchon Prods., Ltd., Whitehaven, Cumberland, England  
Robinson Wagner Co., 110 E. 42nd St., N. Y.

## LEAD ARSENATE

Amer. Agricultural Chem. Co., 50 Church St., N. Y.  
California Spray-Chemical Corp., Richmond, Calif.  
Chipman Chem. Co., Bound Brook, N. J.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
General Chemical Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
Sherwin-Williams Co., Cleveland, O.

## LECITHIN

American Lecithin Corp., 57-01 32 Ave., Woodside 77, N.Y.  
Archer-Daniels-Midland Co., Minneapolis 2  
Central Solvents & Chems. Co., 2540 W. Flournoy St.,  
Chicago  
W. A. Cleary Corp., New Brunswick, N. J.  
Digestive Ferments Co., 930 Henry St., Detroit  
General Mills, Inc., 400 S. 2nd Ave., South Minneapolis  
1  
Glidden Co., 1825 N. Laramie Ave., Chicago  
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.  
Merck & Co., Rahway, N. J.  
Ohio Solvents & Chems. Co., 3470 W. 140 St., Cleveland  
Robinson, Wagner Co., 110 E. 42 St., N. Y. 17  
Ross & Rowe, Inc., 50 Broadway, N. Y.  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Wilson Labs., 4221 S. Western Blvd., Chicago

## LEMON OIL, LEMONGRASS OIL (see Essential Oils)

## LIME (Live and Hydrated)

Aluminum Co. of America, Gulf Bldg., Pittsburgh  
California Spray-Chemical Corp., Richmond, Calif.  
Chas. B. Chrystal Co., 53 Park Pl., N. Y. 17  
Dow Chemical Co., Midland, Mich.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Hoosac Valley Lime Co., Adams, Mass.  
Lehigh Lime Co., 111 W. Washington St., Chicago  
National Gypsum Co., 192 Delaware Ave., Buffalo, N. Y.  
Penna. Salt Mfg. Co., Widener Bldg., Phila. 7  
Rockland-Rockport Lime Co., Rockland Maine  
Thompson-Hayward Chem. Co., 2915 Southwest Blvd.,  
Kansas City 8, Mo.  
U. S. Lime Prods. Corp., 85 Second St., San Francisco  
Whittaker, Clark & Daniels, Inc., 260 W. B'Way, N. Y.  
Witco Chemical Co., 122 E. 42 St., N. Y.

## LINDANE (Benzene Hexachloride, 99% gamma isomer)

California Spray-Chemical Corp., Richmond, Calif.  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
Diamond Alkali Co., Union Commerce Bldg., Cleveland  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
General Chem. Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y. 6  
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara  
Falls, N. Y.  
Olin Mathieson Chem. Corp., Baltimore 3

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# ever

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ORTHO Lindane 100 is actually purer than the minimum government standards—has a minimum gamma isomer of 100% . . . highest potency . . . combines effectiveness with economy.

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Fresno, Calif.	Oklahoma City, Okla.	Maumee, Ohio	

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## LINDANE (Contd.)

Penn. Salt Mfg. Co., 1000 Widener Bldg., Phila.  
Pittsburgh Coke & Chem. Co., 2000 Grant Bldg., Pittsburgh  
Stauffer Chem. Co., 380 Madison Ave., N. Y.  
Tennessee Prods. & Chem. Corp., American National Bank Bldg., Nashville, Tenn.  
Westvaco Chlor-Alkali Div., 405 Lexington Ave., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

## LINALOE OIL (see Essential Oils)

## LINALOOL (see Aromatic Chemicals)

## LINDANE FORMULATIONS

A-M-R Chemical Co., 958 E. 35th St., Bklyn. 10  
Baird & McGuire, Inc., Holbrook, Mass.  
California Spray-Chemical Corp., Richmond, Calif.  
Douglas Chem. Co., 620 E. 16 Ave., North Kansas City, Mo.  
Dow Chem. Co., Midland, Mich.  
Eagle Soap Corp., Huntington, Ind.  
Fuld Bros., 702 Wolfe St., Baltimore 31  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
General Chemical Division, Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Hysan Prods. Co., 932 W. 38th Pl., Chicago  
McLaughlin, Gormley, King Co., 1715 5th St., S. E. Minneapolis  
Michigan Chemical Corp., St. Louis, Mich.  
Midland Laboratories, 210 Jones St., Dubuque, Iowa.  
S. B. Penick & Co., 50 Church St., New York  
Pittsburgh Coke & Chem. Co., 2000 Grant Bldg., Pittsburgh  
John Powell Div., 1 Park Ave., N. Y.  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Private Brands, Inc., 300 S. 3 St., Kansas City, Kan.  
J. W. Quinn Drug Co., Greenwood, Miss.  
Stauffer Chemical Co., 380 Madison Ave., N. Y.  
George Stearns Chem. Co., 4200 E. Mendota St., Madison, Wisc.  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City 8, Mo.  
Uncle Sam Chem. Co., 575 W. 131st St., N. Y. 27  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
James Varley & Sons, 1200 Switzer Ave., St. Louis 15

## LINERS (see Bag Liners)

## LINING MACHINERY (Cartons)

Consolidated Prods. Co., 59 Garden St., Hoboken, N. J. (Used)  
R. A. Jones & Co., Covington, Ky.  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago (Used)  
Pneumatic Scale Corp., North Quincy, Mass.  
F. B. Redington Co., 112 S. Sangamon St., Chicago

## LINSEED OIL

(see also Brokers and Dealers)

Amsco Solvents & Chems. Co., 4619 Reading Rd., Cincinnati  
Archer-Daniels-Midland Corp., Minneapolis, Minn.  
Buffalo Solvents & Chem. Corp., P. O. #73, Sta. B, Buffalo  
Central Solvents & Chems. Co., 2540 W. Flourney St., Chicago  
Falk & Co., Pittsburgh  
Hoosier Solvents & Chems. Corp., 1650 Luett St., Indianapolis  
Spencer Kellogg & Sons, 98 Delaware Ave., Buffalo, N. Y.  
Missouri Solvents & Chems. Co., 419 DeSoto, St. Louis  
Ohio Solvents & Chems. Co., 3470 W. 140 St., Cleveland  
Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Angeles 23  
J. H. Redding, Inc., 17 Battery Place, N. Y.

Rosenthal Bercow Co., 23 E. 26th St., N. Y. 10  
Sherwin Williams Co., Cleveland, Ohio  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Arthur C. Trask Co., 4103 S. LaSalle St., Chicago  
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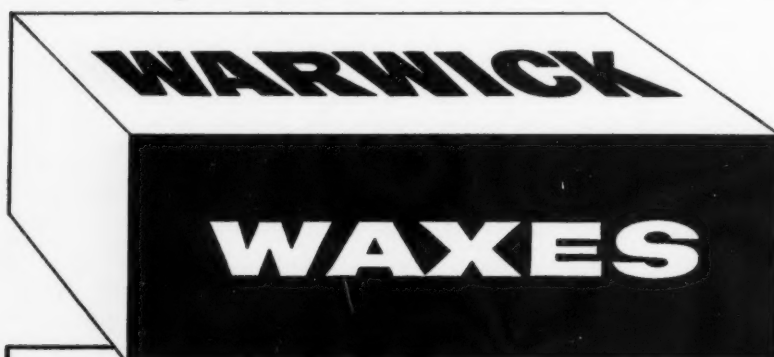
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Read-Standard Corp., York, Pa.  
Geo. C. Rodgers Co., 2401 Third Ave., N. Y.  
Chas. Ross & Son Co., 148 Classon Ave., Bklyn. 5  
Troy Engine & Machine Co., Troy, Pa.  
U. S. Stoneware Co., Akron 9, O.

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 Houchin Machy. Co., Hawthorne, N. J.  
 Kent Machine Works, 39 Gold St., Brooklyn  
 Mixing Equipment Co., Inc., 135 Mt. Read Blvd.,  
 Rochester, N. Y.  
 Newman Tallow & Soap Mach., 1051 W. 35th St.,  
 Chicago (Used)  
 Rapids Machy. Co., Marion, Ia.  
 Read Standard Corp., York Pa.  
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 Conn. & Co., 9 S. Marion St., Warren, Pa.  
 Consolidated Products Co., 59 Garden St., Hoboken, N. J.  
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 Consolidated Products Co., 59 Garden St., Hoboken, N. J.  
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 Ertel Engineering Corp., W. Front St., Kingston, N. Y.  
 Filpaco Industries, 2464 S. Michigan Ave., Chicago  
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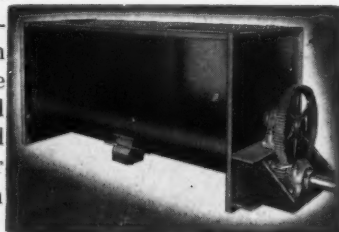


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 General Petroleum Corp., 108 W. 2nd St., Los Angeles  
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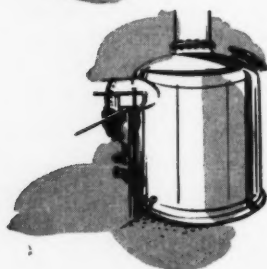
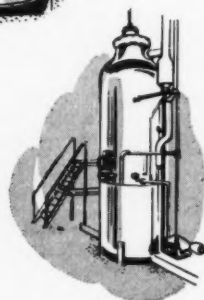
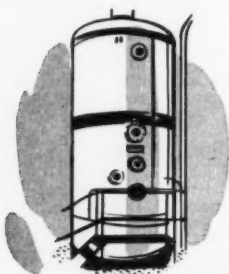
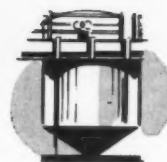
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(DEPT. 9) 5201 SOUTH KENWOOD AVENUE, CHICAGO, ILLINOIS, U. S. A.



#### NITRE CAKE (Contd.)

Rohm & Haas Co., 222 W. Washington Sq., Philadelphia  
Monsanto Chemical Co., 1724 S. 2nd St., St. Louis  
Penna. Salt Mfg. Co., Philadelphia  
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17  
Rosenthal Bercow Co., 23 E. 26th St., N. Y.

#### NITROPARAFFINS

Commercial Solvents Corp., 260 Madison Ave., N. Y. 16

#### NONYL PHENOL

Antara Chemicals, Div. General Aniline & Film Corp.,  
435 Hudson St., N. Y. 14  
Jefferson Chemical Co., 260 Madison Ave., N. Y. 16  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh

#### NOVELTY SOAPS

Armour & Co., 1355 W. 31st St., Chicago  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8  
Duveen Soap Corp., 36-14 35th St., Long Island City 6, N. Y.  
Hewitt Soap Co., Dayton, O.  
Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
Original Bradford Soap Wks., West Warwick, R. I.  
Peck's Products Co., 610 E. Clarence Ave., St. Louis  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Allen B. Wisley Co., 6801 W. 65th St., Chicago

#### NOZZLES, for agricultural, insecticide and portable sprayers

Bete Fog Nozzles Co., Greenfield, Mass.  
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago, Ill.  
Monarch Mfg. Wks., 3406 Miller St., Phila.  
Spraying Systems Co., 3266 Randolph St., Bellwood, Ill.

#### NOZZLES, FOR SPRAY SYSTEMS

Bete Fog Nozzle Co., Greenfield, Mass.  
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago 11  
Monarch Mfg. Works, 3406 Miller St., Phila.  
Spraying Systems Co., 3266 Randolph St., Bellwood, Ill.  
Z & W Mach. Prods., 5151 St. Clair Ave., Cleveland 14

#### ODORLESS KEROSENE (see Insecticide Base Oils, Deodorized)

#### OIL, BASE (see Insecticide Base Oils)

#### OIL HYDROGENATION PLANTS

William Garrigue Co., 9 S. Clinton St., Chicago  
Alan Porter Lee Associates, 19 South St., Morristown, N. J.  
Project Construction Corp., 39 Broadway, N. Y. 6  
Struthers-Wells Titusville Corp., Warren, Pa.  
Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chicago

#### OIL MILL EQUIPMENT

V. D. Anderson Co., 1935 W. 96th St., Cleveland  
Bauer Bros. Co., Springfield, O.  
Consolidated Prods. Co., 59 Garden St., Hoboken, N. J. (Used)  
French Oil Mill Mach. Co., Piqua, O.  
William Garrigue Co., 9 S. Clinton St., Chicago  
Ernest Scott & Co., Fall River, Mass.  
Sprout Waldron & Co., Muncy, Pa.  
Struthers-Wells Co., Warren, Pa.  
Wurster & Sanger, Inc., 5201 E. Kenwood Ave., Chicago

#### OITICICA OIL

Archer-Daniels-Midland Co., Minneapolis  
Brazil Oiticica, Inc., 80 Broad St., New York 4  
Brazilian Industrial Oils, Inc., 75 West St., N. Y.  
Geo. Degen & Co., 111 Broadway, N. Y. 6

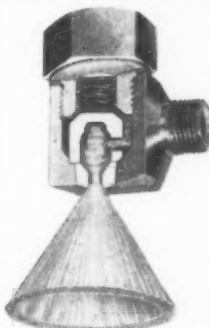
#### 1955 BLUE BOOK

### for SPRAY NOZZLES

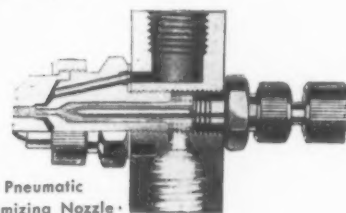
When you need an experienced, reliable source of supply for spray nozzles, may we suggest you try Spraying Systems Co.? Specialization in the design and manufacture of spray nozzles and related equipment on our part, makes it possible to offer you a full range of nozzle types and sizes for every possible application. Our services include development work to meet your specialized processing or application needs.

#### soap manufacturers

Typical Spraying Systems spray nozzles for soap manufacturing are shown here. The Whirljet Nozzle is built with a tungsten carbide whirl chamber and orifice insert for high abrasion resistance. This nozzle is recommended as a long-life unit for soap spray drying.



WHIRLJET  
¾ BBSSTC



Pneumatic  
Atomizing Nozzle

Spraying Systems Pneumatic Atomizing Nozzles such as shown below provide extremely fine atomization, uniform spray pattern, and exact volume control for such operations as perfume spraying.

#### insecticide distributors and pest control contractors

For the residual spraying of insecticides, Spraying Systems TeeJet Spray Nozzles give you the exact even distribution that makes this type of spraying effective. TeeJet Nozzles are precision made, and provide a highly uniform flat spray pattern. Orifice tips are interchangeable and are available in any capacity required.

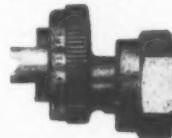


SPRAY NOZZLE ACCESSORIES . . . wide range supplied such as line strainers, suction strainers, fittings, connectors, adjustable nozzles and hand valves.



Trigger TeeJet with Curved Extension . . . gives hand valve control in spraying. Quality built for long-life effective operation.

MultiteeJet Tip Assembly . . . this nozzle can be rotated to index to four different positions, giving four types of spray in one nozzle. Can be used with Trigger TeeJet assembly.



WRITE FOR COMPLETE INFORMATION  
... tell us the type of spray nozzles or equipment you need.

**SPRAYING SYSTEMS CO.**  
*Engineers and Manufacturers*

3266 RANDOLPH STREET • BELLWOOD, ILLINOIS (Suburb of Chicago)

# CONTRACT PACKAGING



Courtesy of the Cleveland Electric Illuminating Co.

... in the very heart of the market center of America—an area within 500 miles of Cleveland  
... with a population of 81,000,000 people ... earning 74% of the nation's payroll dollars.

## COMPLETE **CONTRACT PACKAGING** FACILITIES *ready* TO SERVE YOUR PACKAGING NEEDS

Whatever your packaging requirements, we can be of service to you ...

- Centralized packaging to reduce freight costs on distribution to eastern and mid-western markets.
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- Packaging for peak-season requirements.
- Packaging to provide a second source of supply.
- Pilot-line packaging tests.
- Taking over your entire packaging and distribution operations to relieve you of excessive packaging and transportation costs.

Since 1934 we've specialized in contract packaging and we are providing efficient, economical custom packaging service for scores of companies, large and small. Our personnel is fully experienced in all types of packaging. Our compounding and packaging equipment is modern, high speed and efficient. We have a new, modern plant with complete warehousing and shipping facilities. We are meticulous with inventory records and insurance coverage on client's goods.

We'd be more than happy to discuss your packaging requirements and submit an estimate in the form of a unit price—each package complete, packed and ready for shipment. Your inquiry is cordially invited.

**PRODUCTS PACKAGING, Inc.**  
BOX 1076, STATION "A", CLEVELAND 2, OHIO

Packagers of automotive and household chemical-specialties and insecticides. Assemblers of hardware and industrial parts.

Packaging in bottles, metal or fibre cans, bags, envelopes, tubes—sizes from a fraction of an ounce to 5 gal. or several pounds.

#### OTITICICA OIL (Contd.)

Michael Hassel, 75 West St., N. Y.  
Internatio-Rotterdam, Inc., 61 Broadway, N. Y. 6  
Murray Oil Prods. Co., 21 West St., N. Y.  
Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Angeles 23  
Werger G. Smith, Inc., Cleveland 13, Ohio  
G. A. Wharry & Co., 125 Broad St., N. Y.

#### OLIVE OIL (Commercial)

(see also Brokers and Dealers)

Irving R. Boody & Co., 120 Wall St., N. Y.  
Camilli, Albert & Laloue, 14 E. 48 St., N. Y. 17  
Eastern Industries, Inc., Ridgefield, N. J.  
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.  
Leghorn Trading Co., 141 E. 44th St., N. Y.  
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y.  
J. H. Redding Co., 17 Battery Pl., N. Y.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
Sergeant Chem. Co., 7 Dey St., N. Y.  
Smith-Weihman Co., 15 Moore St., N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y.

#### OLIVE OIL FOOTS

T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
Eastern Industries, Inc., Ridgefield, N. J.  
Leghorn Trading Corp., 141 E. 44th St., New York  
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.  
J. H. Redding Co., 17 Battery Pl., N. Y.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. 10  
Sergeant Chem. Co., 7 Dey St., N. Y.  
Smith-Weihman Co., 15 Moore St., N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y.

OLIVE OIL SOAPS (see Castile Soaps, Textile Soaps)

#### OPTICAL BLEACHES

American Cyanamid Co., Bound Brook, N. J.  
Antara Chemicals, Division of General Aniline & Film Corp., 435 Hudson St., N. Y.  
Carlisle Chemical Works, Reading, O.  
Ciba Co., 627 Greenwich St., N. Y. 14  
E. I. du Pont de Nemours & Co., Wilmington  
Fiber Chem. Corp., P. O. Box 218, Matawan, N. J.  
Geigy Industrial Chemicals, 89 Barclay St., N. Y.  
Hilton-Davis Chem. Co., 2235 Langdon Farm Rd., Cincinnati 13  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh 19  
National Aniline Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
Pylam Prods. Co., 799 Greenwich St., N. Y. 1

ORTHODICHLOROBENZENE (see listings under Paradichlorobenzene)

#### OXALIC ACID

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Mallinckrodt Chemical Wks., St. Louis, Mo.  
Merck & Co., Rahway, N. J.  
Chas. Pfizer & Co., 630 Flushing Ave., Bklyn.  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. 10  
Tammis Industries, Inc., 228 N. La Salle St., Chicago  
Jos. Turner & Co., Ridgefield, N. J.  
Victor Chemical Wks., 155 N. Wacker Dr., Chicago 6

#### PACKAGING (for the Trade)

A-M-R Chem. Co., 985 E. 35th St., Bklyn. 10  
Armstrong Laboratories, 421 LaGrange St., Boston  
G. Barr & Co., 3601 S. Racine Ave., Chicago  
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.  
Chem. Prods. Co. of N. J., 207 Astor St., Newark, N. J.



# great optical brighteners

### HILTAMINE ARCTIC WHITE N

... for wool, nylon, orlon and acetate

### HILTAMINE ARCTIC WHITE BPS

... for cotton and rayon


and especially for textile processing . . .

### SAFARITONE WHITE WNOA

... for wool, nylon, orlon and acetate

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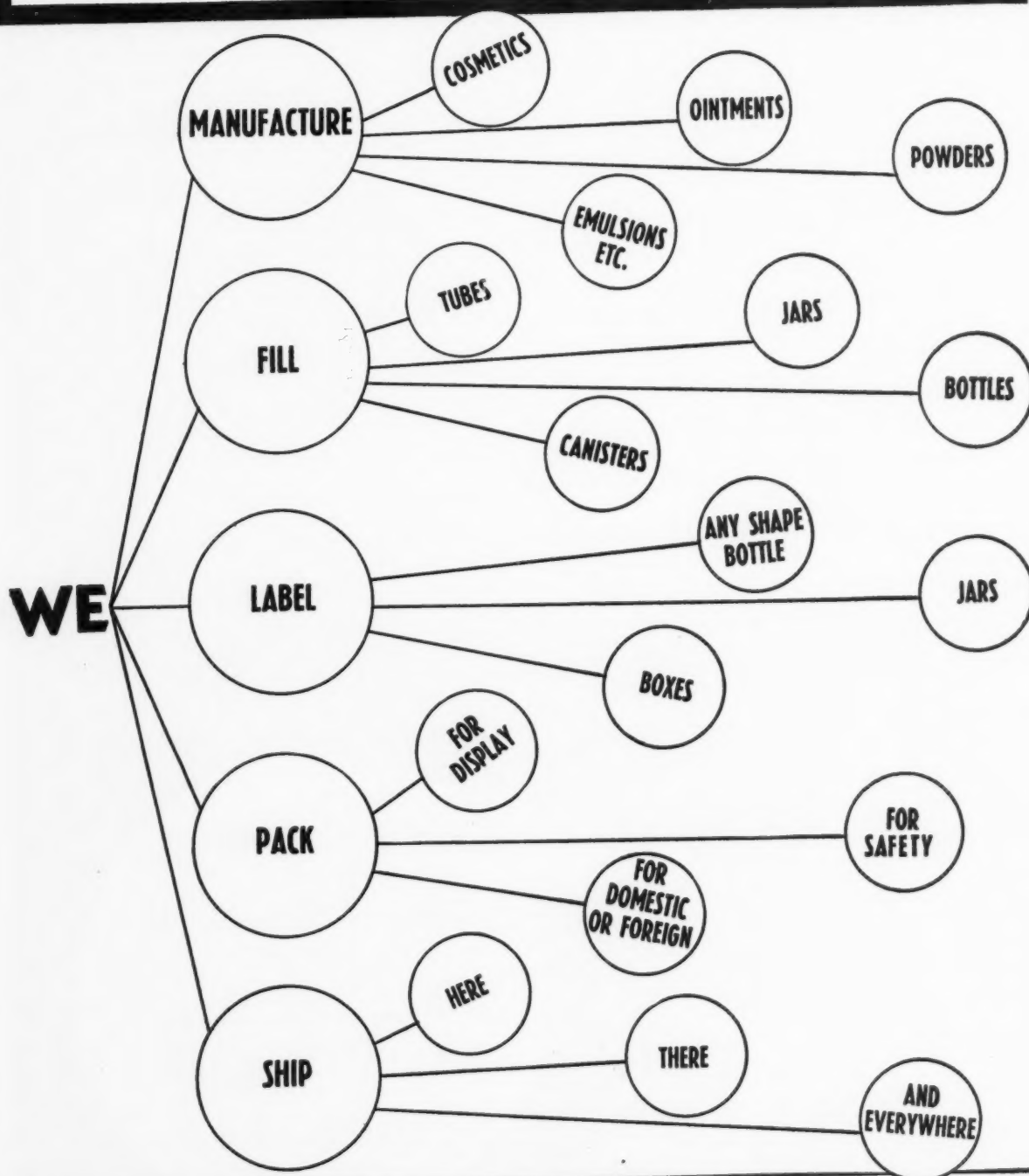
... for cotton and rayon



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# PRIVATE FORMULA WORK



## R. GESELL, INCORPORATED

Manufacturing Chemists  
200 West Houston Street, New York 14, N. Y.



## PACKAGING FOR THE TRADE (Contd.)

Commercial Cleanser Co., 2924 Armitage Ave., Chicago  
Connecticut Chem. Research Corp., Bridgeport, Conn.  
Continental Filling Corp., Danville, Ill.  
Curley Co., Inc., 1432 N. Randolph St., Phila. 22  
**Douglas Chem. Co., 620 E. 16 Ave., North Kan. City, Mo.**  
Fluid Chem. Co., 878 Mt. Prospect Ave., Newark, N. J.  
Gaylord Chem. Co., 701 Woodsweather Rd., Kansas City, Mo.

R. Gesell, Inc., 200 W. Houston St., N. Y.  
R. Hurwich Co., 1043 Hearst Ave., Berkeley, Calif.  
Hysan Prods. Co., 932 W. 38 Pl., Chicago 9  
Kan-Jax Co., 2500 Summit, Kansas City, Mo.  
Lawson Chem. Prods. Co., 5364 Selmarine Dr., Culver City, Calif.

Manufacturers Aid Co., 315 3th St., Union City, N. J.  
McGuire & Co., 833-47th Ave., Oakland, Calif.  
Moss Soap Co., Pinellas Int'l. Airport, St. Petersburg, Fla.

Old Empire Inc., Mt. Prospect & Verona Aves., Newark, N. J.

J. L. Prescott Co., 27 8th St., Passaic, N. J.  
Private Brands, Inc., 300 S. 3rd St., Kansas City 18, Kan.  
Products Packaging, Inc., 6400 Herman Ave., Cleveland 2  
Reilly Chem. Co., Industrial Prods. Div., P.O. Box 98, New Orleans

Gene Rose Co., Inc., 1637 S. Kilbourn, Chicago  
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland 13  
E. B. Snyder Labs., 4450 Leiper St., Phila.

John C. Stalfort & Sons, 319 W. Pratt, Baltimore  
Stevens Wiley Mfg. Co., 1601 W. Glenwood Ave., Phila.  
Theobald Industries, P. O. Box 72, Harrison, N. J.

Trio Chemical Wks., 341 Scholes St., Bklyn. 6

Uncle Sam Chem. Co., 575 W. 131st St., N. Y. 27

Western Filling Corp., 4151 Bandini Blvd., Los Angeles 23

Van Pell Chem. & Supply Corp., 48 E. First St., N. Y.

Warsaw Chemical Co., Warsaw, Ind.

Waverly Mfg. Co., 1825 Wylie St., Phila.

## PACKAGING MACHINERY (see Cartoning Machy., Filling Machy., Weighing Equip., Wrapping Machy.)

### PAILS, GALVANIZED

Atlantic Stamping Co., 156 Ames St., Rochester, N. Y.  
Dobbins Div., Chamberlain Corp., Waterloo, Iowa  
Economy Mop Wringer Co., 1944 W. 21st St., Chicago  
Geuder, Paeschke & Frey, Milwaukee, Wis.  
Illinois Duster & Brush Co., 1944 Webster Ave., Chicago  
S. C. Lawlor Co., 122 N. Aberdeen St., Chicago  
Market Forge Co., 35 Garvey St., Everett 49, Mass.  
Palmer Fixture Co., Waukesha, Wisc.  
Rochester Can Co., 100 Greenleaf St., Rochester, N. Y.  
U. S. Steel Prods. Div., 30 Rockefeller Plaza, N. Y. 20  
White Mop Wringer Co., Fultonville, N. Y.  
Witt Cornice Co., 2138 Winchell Ave., Cincinnati

### PAILS, METAL (Shipping Containers)

American Can Co., 100 Park Ave., N. Y.  
Atlantic Stamping Co., 156 Ames St., Rochester, N. Y.  
Bennett Industries, Peotone, Ill.  
Central Can Co., 2415 W. 19th St., Chicago  
Columbia Can Co., 59-27 54th St., Maspeth 78, N. Y.  
**Continental Can Co., 100 E. 42nd St., N. Y.**  
Eastern Can Co., Keap St. & Kent Ave., Bklyn.  
Fein's Tin Can Co., Bush Terminal, Brooklyn  
Geuder, Paeschke & Frey Co., Milwaukee  
Inland Steel Container Co., 6532 S. Menard Ave., Chicago  
Jones & Laughlin Steel Corp., 3 Gateway Center, Pittsburgh  
National Can Corp., 3217 W. 47th Pl., Chicago 32  
National Steel Barrel Co., 3860 E. 91st St., Cleveland  
Pressed Steel Tank Co., 5717 Greenfield Ave., Milwaukee  
Rheem Mfg. Co., 7600 S. Kedzie Ave., Chicago  
Stern Can Co., 71 Locust St., Boston 25  
John Trageser Steam Copper Works, Maspeth, L. I.

# Custom Packaging and Formulations

- WAREHOUSING • SHIPPING
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- POWDERS 4 Oz. to 100 Pounds

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CHEMICAL COMPANY

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# HI-BAKE LININGS for your Hard-to-Hold products

## BENNETT DOUBLE PROTECTION



**FIRST** . . . With Bennett carefully applied "Hi-Bake" linings, scientifically selected to properly hold your individual product.

**SECOND** . . . With Bennett's pre-tested containers and superior workmanship . . . the result of over 40 years of experience in steel container manufacture.

Correct application methods usually account for the success or failure of a "Hi-Bake" container lining. Bennett has the most modern equipment, extensive research facilities and experienced personnel to assure you positive protection for your products. Extreme care is taken to follow only approved and pretested methods of application. Single coat as well as multiple coat lining applications are diligently checked for full coverage and proper thickness of each coat throughout the pail interior.

Bennett "Hi-Bake" lined pails will safely contain such active ingredients as paints, adhesives, insecticides, inks, foods, soaps, cleaning compounds, and most chemicals.

Bennett engineers welcome the opportunity to consult with you as to the proper type of "Hi-Bake" lining for your specific products. No obligation is involved. We will gladly submit lined sample pails for your own tests. Call or write us today for more information.

## BENNETT INDUSTRIES

Peotone, Illinois

40 MILES SOUTH OF CHICAGO LOOP

Chicago Telephone  
INterocan 8-9480

Long Distance  
Peotone 2791



## PAILS, METAL (Contd.)

U. S. Steel Prods. Div., 30 Rockefeller Plaza, N. Y. 20  
Vulcan Containers Ltd., Box 284, Toronto, Can.  
Vulcan Steel Container Co., 3315 N. 35th Ave.,  
Birmingham, Ala.  
Vulcan Stamping & Mfg. Co., Bellwood, Ill.  
Wheeling Corrugating Co., Wheeling, W. Va.

## PAILS (Wooden)

Beaver Mills, Keene, N. H.  
Eagle Woodenware Mfg. Co., Hamilton, O.  
Gambrinus Cooperage Works, Louisville  
Impervious Package Co., Keene, N. H.  
Menasha Woodenware Co., Menasha, Wis.  
Richmond Cedar Works, Richmond, Va.  
White Mop Wringer Co., Fultonville, N. Y.

## PALM KERNEL OIL

(see also Brokers and Dealers)

Balfour Guthrie & Co., 67 Wall St., N. Y.  
Irving R. Boody & Co., 120 Wall St., N. Y.  
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave.,  
N. Y. 17  
Leghorn Trading Corp., 141 E. 44th St., N. Y.  
Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Angeles  
Spencer Kellogg & Sons, 98 Delaware Ave., Buffalo, N. Y.  
J. H. Redding Co., 17 Battery Pl., N. Y.  
Smith-Weihman Co., 15 Moore St., N. Y.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Zimmerman Alderson Carr Co., 25 Broadway, N. Y.

## PALM OIL

Balfour Guthrie & Co., 67 Wall St., N. Y.  
T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Eastern Industries, Ridgefield, N. J.  
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave.,  
N. Y. 17  
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.  
Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Angeles  
J. H. Redding Co., 17 Battery Pl., N. Y.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. 10  
Smith-Weihman Co., 15 Moore St., N. Y.  
Stein, Hall & Co., 285 Madison Ave., N. Y.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Zimmerman Alderson Carr Co., 25 Broadway, N. Y.

## PALM OIL FATTY ACIDS

Archer-Daniels-Midland Co., Minneapolis 2, Minn.  
Armour Chemical Div., Chicago 9  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Emery Industries, 4300 Carew Tower, Cincinnati  
General Mills, 400 2nd Ave. S., Minneapolis  
A. Gross & Co., 295 Madison Ave., N. Y. 17  
Harchem Div., Wallace & Tiernan, Inc., Box 178,  
Newark, N. J.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Woburn Chemical Corp., Harrison, N. J.  
G. S. Ziegler & Co., 99 Church St., N. Y. 17

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Sutherland Paper Co., Kalamazoo, Mich.  
U. S. Envelope Co., Springfield, Mass.  
G. H. Wood & Co., Box 34 Toronto, Ont., Canada

## PAPER TOWEL DISPENSERS (see Vending Machines)

## 1955 BLUE BOOK



# STEEL PAILS

in all Trade Styles and Sizes

1-15 GALLONS

### LUG CLOSURE POURING PAILS

Combination shipping and dispensing containers which insure safe delivery of your products and convenience in using them. Full opening for easy filling. Made of fine quality steel on modern production equipment to exacting standards.



### DRUM-TYPE CLOSED-HEAD CONTAINERS

Required for the shipment of many thin liquids, these Vulcan containers have welded side-seam, top and bottom double-seamed, and are offset at the top for solid stacking.

### STANDARD LUG-CLOSURE PAILS

Made in a wide range of trade sizes for liquid, dry and solid products, these sturdy pails have accurately formed cover lugs which are crimped beneath the curled rim of the pail to make a closure which defies all shipping hazards.



### HI-BAKE LININGS — POURING NOZZLES AND SPOUTS—

Hi-Bake Linings are applied under the control of scientific instruments and are available in all styles of Vulcan pails and drums. Pouring openings may be had with Push-Pull Spouts and either screw or U-Pressit caps with tamper-proof seals—with reversible, flexible polyethylene spouts or other popular pouring nozzles and spouts as required.

*Samples gladly sent upon request*

**Over 35 Years of Top Quality Containers**  
**"It's Better to Ship in Steel"**

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P.O. Box 161, Bellwood, Illinois (Suburb of Chicago)  
In Toronto, Canada—Vulcan Containers Limited  
Representatives in All Principal Cities

only

# PARADI®

offers you **7** sizes

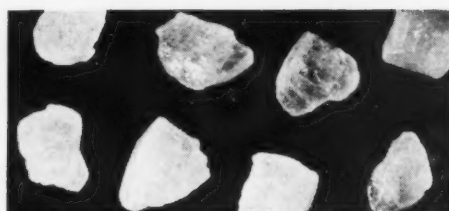
Paradi is 100% pure Hooker paradichlorobenzene. These seven sizes make your processing and packaging job easier. The clean, dry, sparkling crystals give your product every possible market advantage.

You can get Paradi in fiber drums—25, 50, 100 and 200 lbs. net.

Which sizes are best for you? Why not order a trial quantity today?

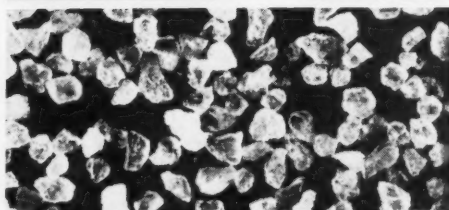
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**FREE FOLDER...** Hooker Bulletin 454 contains much interesting and useful information on handling and using Paradi. Send for a copy today.



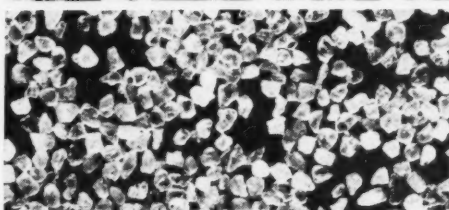
#### PEA NO. 1

**Repackage** these big sparkling crystals, just as they come from the drum. A pound looks like more... has extra retail appeal.



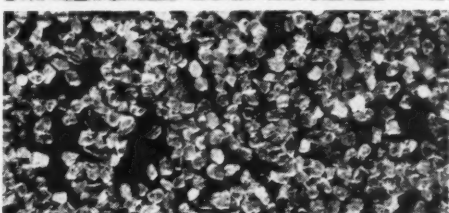
#### PEA NO. 2

**Add variety** to your mothicide line, with these finer, free-flowing crystals. They're ready to repackage as is—or can be perfumed without melting.



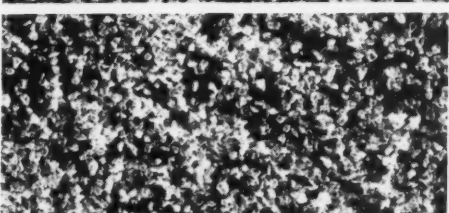
#### RICE NO. 1

**Offer this special fine size** for sprinkling in folds and seams of clothing. This crystal size sublimates quickly, to give unusually high concentration of moth-killing fumes.



#### RICE NO. 2

**Feed your power presses** with this size. It's just right for compressing into blocks and pellets. Flows very freely, so is ideal for automatic presses where dies must be refilled rapidly.



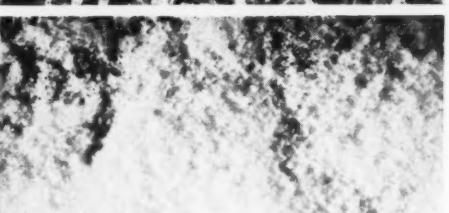
#### RICE NO. 3

**Use this finer size** in foot-operated presses. It's free-flowing but small enough to pack and compress easily with least effort, for maximum production.



#### GRANULATED

**Boost farm sales** with this bulk-package size. It's often recommended for controlling peach tree borer, tobacco blue mold; as a weed killer in cranberry bogs; in control of poison ivy and other weeds.



#### POWDERED

**Melt this super fine size**, and ladle it into molds for blocks and pellets. It melts rapidly, saves you production time. It's easily colored and perfumed.

1905—Half a Century of Chemicals

From the Salt of the Earth—1955

**HOOKER ELECTROCHEMICAL COMPANY**

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Scott Paper Co., Chester, Pa.  
Straubel Paper Co., Green Bay, Wisc.  
U. S. Envelope Co., Springfield,  
Victoria Paper Mills Co., Fulton, N. Y.  
Wheeler Paper Co., 299 Madison Ave., N. Y.  
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada

## PARA BLOCKS (see Deodorizing Blocks)

## PARADICHLOROBENZENE

Columbia-Southern Chem. Corp., 1 Gateway, Pittsburgh  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.  
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh 19  
Merck & Co., Rahway, N. J.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
Niagara Alkali Co., 60 E. 42nd St., N. Y.  
Rosenthal Berrow Co., 23 E. 26th St., N. Y.  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Standard Naphthalene Prods. Co., S. Kearny, N. J.

## PARAFFIN

American Mineral Spirits Co., 155 E. 44th St., N. Y.  
Amsco Solvents & Chemicals Co., 4619 Reading Rd., Cincinnati  
Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Buffalo Solvents & Chemicals Co., Box 73, Station B, Buffalo, N. Y.  
Candy & Co., 2515 W. 35th St., Chicago 32  
Central Solvents & Chemicals Co., 2540 W. Flournoy St., Chicago  
Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
Gulf Refining Co., Pittsburgh  
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis  
International Wax Refining Corp., E. Hawthorne Ave., Valley Stream, N. Y.  
Mercantile Wax, Div. of Mercantile Metal & Ore Corp., 595 Madison Ave., N. Y.  
Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis  
Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland  
Pennotex Oil Corp., 29 Broadway, N. Y. 6  
Pennsylvania Refining Co., Butler, Pa.  
Petroleum Specialties, Inc., 205 E. 42 St., N. Y. 17  
Rosenthal Berrow Co., 23 E. 26th St., N. Y. 10  
Frank B. Ross Co., 6-10 Ash St., Jersey City, N. J.  
Shell Oil Co., 50 W. 50 St., N. Y. 20  
Sherwood Refining Co., Englewood, N. J.  
Sinclair Refining Co., 630-5th Ave., N. Y.  
L. Sonneborn Sons, 300 4th Ave., N. Y. 10  
Southern Solvents & Chemical Corp., 1354 Jefferson Highway, New Orleans.  
Standard Oil Co. (Calif.), 225 Bush St., San Francisco  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Standard Oil Co. (N. J.), 26 Broadway, N. Y.  
Standard Oil Co. (Ohio), Midland Bldg., Cleveland  
F. W. Steadman Co., 59 Pearl St., N. Y.  
Texas Co., 135 E. 42nd St., N. Y.  
Texas Solvents & Chemicals Co., 8501 Market St., Houston  
Warwick Wax Co., Inc., 10th St. & 44th Ave., Long Island City, N. Y.  
Wax & Rosin Prods., 42 Broadway, N. Y.  
Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee  
Wolverine Solvents & Chemicals Co., 1500 Century Ave., S.W., Grand Rapids, Mich.

## PARIS GREEN

Dow Chemical Co., Midland, Mich.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Rosenthal Berrow Co., 23 E. 26 St., N. Y.  
George F. Smith, 60 E. 42 St., N. Y. 17

## PARAFFIN OILS

Amsco Solvents & Chems. Co., 4619 Reading Rd., Cincinnati  
Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago  
Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
Gulf Refining Co., Pittsburgh  
International Wax Ref. Corp., Valley Stream, N. Y.  
Pennsylvania Refining Co., Butler, Pa.  
Petroleum Specialties, Inc., 205 E. 42 St., N. Y. 17  
Sherwood Refining Co., Englewood, N. J.  
Sinclair Refining Co., 630-5th Ave., N. Y.  
Skelly Oil Co., Skelly Bldg., Kansas City, Mo.  
L. Sonneborn Sons, 300 4th Ave., N. Y.  
Standard Oil Co. (Calif.), 225 Bush St., San Francisco  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Standard Oil Co. (Ohio), Midland Bldg., Cleveland  
F. W. Steadman Co., 59 Pearl St., N. Y.  
Warwick Wax Co., Inc., 10th St. & 44th Ave., Long Island City, N. Y.

## PASTES (see Adhesives)

## PATCHOULI OIL (see Essential Oils)

## PEANUT OIL

(see also Brokers and Dealers)

Archer-Daniels-Midland Co., Minneapolis 2  
Geo. Degen & Co., 111 Broadway, N. Y. 6  
Eastern Industries, Inc., Ridgefield, N. J.  
Falk & Co., Pittsburgh 30  
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.  
Spencer Kellogg & Sons, Buffalo, N. Y.  
Leghorn Trading Co., 141 E. 44th St., N. Y.  
Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Angeles  
J. H. Redding, Inc., 17 Battery Place, N. Y.  
Rosenthal Berrow Co., 23 E. 26th St., N. Y. 10  
Sergeant Chem. Co., 7 Dey St., N. Y.  
Southern Cotton Oil Co., Produce Exchange, N. Y.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.

## PEANUT FATTY ACIDS

Archer-Daniels-Midland Co., Minneapolis 2, Minn.  
Darling & Co., 4201 S. Ashland Ave., Chicago  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Jos. Turner & Co., Ridgefield, N. J.  
Vegetable Oil Prods. Co., 5636 E. 61st St., Los Angeles  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Woburn Chemical Corp., Harrison, N. J.

## PEARL ASH (see Potassium Carbonate)

## PENROYAL OIL (see Essential Oils)

## PENTACHLOROPHENOL

California Spray-Chemical Corp., Richmond, Va.  
Dow Chemical Co., Midland, Mich.  
Geigy Chemical Corp., 89 Barclay St., N. Y.  
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Ohio Solvents & Chem. Co., 3470 W. 140 St., Cleveland  
Reilly Tar & Chemical Corp., Merchants Bank Bldg., Indianapolis, Ind.  
Texas Solvents & Chem. Co., 8501 Market, Houston  
Wisconsin Solvents & Chems. Corp., 1719 S. 83 St., Milwaukee  
Wolverine Solvents & Chems. Co., 1500 Century Ave., SW, Grand Rapids, Mich.

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Fuld Bros., 702 S. Wolfe St., Baltimore  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Keystone Scent Conditioner Corp., 315 N. 12th St., Phila.  
Robinson Clay Prod. Co., 101 Park Ave., N. Y.  
Scent-Flo. Dist. Co., 7227 Hamilton Ave., Pittsburgh 8  
Star Porcelain Co., 33 Muirhead Ave., Trenton, N. J.  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
Universal Electric Products, 2201 Regent St., Madison 5, Wis.  
U. S. Sanitary Specialties Corp., 1001 S. California Blvd., Chicago 12

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#### PERCOLATORS (for solvent extraction)

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Edge Moor Iron Wks., 30 Rockefeller Plaza, N. Y.  
Fpaudler Co., 1000 West St., Rochester, N. Y.  
F. J. Stokes Machine Co., Philadelphia

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American Aromatics, Inc., 24 E. 21 St., N. Y. 10  
Aromatic Products, Inc., 15 E. 30th St., N. Y.  
Berje Chem. Prod. Co., 359 W. Broadway, N. Y.  
Charabot & Co., 114 E. 25th St., N. Y.  
Ph. Chaleyer, Inc., 160 E. 56th St., N. Y.  
Antoine Chiris Co., 212 E. 23rd St., N. Y.  
Gerard J. Danco, Inc., 5 E. 19th St., N. Y. C.  
De Laire, Inc., 114 E. 32nd St., N. Y.  
Dodge & Olcott, Inc., 180 Varick St., N. Y.  
Dow Chemical Co., Midland, Mich.  
P. R. Dreyer, Inc., 601 W. 26th St., N. Y.  
Felton Chemical Co., 603 Johnson Ave., Brooklyn, N. Y.  
Firmenich, Inc., 250 W. 18th St., N. Y.  
Fleuroma, Inc., 38 W. 21st St., N. Y. 10  
Florasynth Laboratories, 900 Van Nest Ave., N. Y.  
Benj. French, Inc., 160 Fifth Ave., N. Y.  
Fries & Fries, Inc., 110 E. 70th St., Cincinnati  
Fritzsche Brothers, Inc., 76 Ninth Ave., N. Y.  
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.  
Gunning & Gunning, 601 W. 26th St., N. Y.  
Heine & Co., 54 Cliff St., N. Y.  
D. W. Hutchinson & Co., 700 S. Columbus Ave., Mt. Vernon, N. Y.  
Lautier Fils, 321 Fifth Ave., N. Y.  
Samuel Klein, 4 Hanover Sq., N. Y. 14  
Pierre Lemoine, 67 Cortlandt St., N. Y.  
Geo. Lueders & Co., 427 Washington St., N. Y.  
Magnus, Mabree & Reynard, 16 Desbrosses St., N. Y.  
A. Maschmeijer, Jr., Div., 630 Fifth Ave., N. Y.  
N. Y. Aromatics Corp., High Bridge, N. J.  
Newman Buslee Wolfe, 5800 Northwest Highway, Chicago  
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.  
Noville Essential Oil Co., 1312 5th St., N. Bergen, N. J.  
Orbis Products Corp., 601 W. 26th St., N. Y.  
S. B. Penick & Co., 50 Church St., N. Y.  
Perry Bros., Inc., 220 Flushing Ave., Brooklyn  
Polak's Frutal Wks., 33 Sprague Ave., Middletown, N. Y.  
Polak & Schwarz, Inc., 667 Washington St., N. Y.  
Polarome Co., 73 Sullivan St., N. Y. C.  
Reynaud, Ltd., 355 W. 52nd St., N. Y. 19  
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Edwin Seebach Co., 912 Broadway, N. Y.  
Seeley & Co., Nyack, N. Y.  
Shulton, Inc., Fine Chemicals Div., 630 Fifth Ave., N. Y.  
Synfleur Scientific Labs., Monticello, N. Y.  
Syntomatic Corp., 114 E. 32nd St., N. Y.  
Tennessee Eastman Co., 260 Madison Ave., N. Y.  
Tombarel Products Corp., 725 Broadway, N. Y. 3  
Ungerer & Co., 161 Avenue of Americas, N. Y.  
van Ameringen-Haebler, Inc., 521 W. 57th St., N. Y.  
Van Dyk & Co., Belleville, N. J.  
Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.  
Verona Chem. Co., 26 Verona Ave., Newark, N. J.

#### PETIT GRAIN OIL (see Essential Oils)

#### PETROLATUM (Petroleum Jelly)

Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Chesebrough Mfg. Co., 17 State St., N. Y.  
Industrial Raw Materials Corp., 575 Madison Ave.,  
N. Y. 22  
Mercantile Wax Div., 595 Madison Ave., N. Y.  
Pennotex Oil Corp., 29 Broadway, N. Y. 6  
Pennsylvania Refining Co., Butler, Pa.  
Petroleum Specialties, Inc., 205 E. 42 St., N. Y. 17  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. 10  
Sherwood Refining Co., Englewood, N. J.  
Sinclair Refining Co., 630 Fifth Ave., N. Y.  
L. Sonneborn Sons, 300 4th Ave., N. Y. 10  
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Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Standard Oil Co. (N. J.), 26 Broadway, N. Y.  
F. W. Steadman Co., 59 Pearl St., N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y.

#### PETROLEUM BASE OILS (see Insecticide Base Oils)

#### PETROLEUM SULFONATES

Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Continental Oil Co., 630 5th Ave., N. Y. 30  
Emulsol Chemical Corp., 59 E. Madison St., Chicago 3  
Enjay Co., 15 W. 51st St., N. Y.  
General Petroleum Corp., 108 W. 2nd St., Los Angeles  
Indoil Chemical Co., 910 S. Michigan Ave., Chicago 80  
Oronite Chem. Co., 200 Bush St., San Francisco  
Pennotex Oil Corp., 29 Broadway, N. Y. C.  
Pennsylvania Refining Co., Butler, Pa.  
Petroleum Specialties, Inc., 205 E. 42 St., N. Y., 17  
L. Sonneborn Sons, 300 4th Ave., N. Y.

#### PHENOL (Carbolic Acid)

Barrett Div., Allied Chem. & Dye Corp., 40 Rector St.,  
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Dow Chemical Co., Midland, Mich.  
Hercules Powder Co., 961 Market St., Wilmington  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
Oronite Chem. Co., 200 Bush St., San Francisco  
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Rosenthal Bercow Co., 23 E. 26th St., N. Y. 10

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#### PHENOL, NONYL (see Nonyl Phenol)

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Central Solvents & Chemicals Co., 2540 W. Flournoy St., Chicago  
E. W. Colledge, General Sales Agent, Inc., P. O. Box 389, Jacksonville, Fla.  
Continental Turp. & Rosin Corp., Laurel, Miss.  
Crosby Chemicals, Inc., Picayune, Miss.  
Dixie Pine Prods. Co., Hattiesburg, Miss.  
Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
Glidden Co., Naval Stores Div., P. O. 389, Jacksonville, Fla.  
Gulf Naval Stores Supply Co., Whitney Bldg., New Orleans  
Hercules Powder Co., 961 Market St., Wilmington, Del.  
Hoosier Solvents & Chems. Corp., 1650 Luett St., Indianapolis  
Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.  
Missouri Solvents & Chems. Co., 419 DeSoto, St. Louis  
Newport Industries, Inc., 230 Park Ave., N. Y.  
Ohio Solvents & Chems. Co., 3470 W. 140 St., Cleveland  
Phoenix Naval Stores Co., Gulfport, Miss.  
Taylor, Lowenstein & Co., Mobile, Ala.  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Wisconsin Solvents & Chem. Corp., 1719 S. 83 St., Milwaukee  
Welch, Holme & Clark Co., 349 West St., N. Y.  
Wolverine Solvents & Chems. Co., 1500 Century Ave., SW, Grand Rapids, Mich.

## PINE OIL DISINFECTANTS (see Disinfectants, Pine Oil)

## PINE NEEDLE OIL (see Essential Oils)

## PINE SCRUB SOAPS (see also Floor Scrub Soaps)

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American Soap & Washoline Co., Cohoes, N. Y.  
Ampion Corp., 4-88—47th Ave., L. I. City, N. Y.  
Analab Labs., 285 Franklin St., Boston 10  
Antiseptol Co., 5524 Northwest Highway, Chicago  
Armour Industrial Soap Dept., Chicago 9  
Baird & McGuire, Inc., Holbrook, Mass.  
Banner Chem. Prods. Co., 9 Calumet St., Newark, N. J.  
Baum's Castorine Co., Rome, N. Y.  
Bilco Chem. Co., 607 DeGraw St., Bklyn.  
Boston Chemical Industries, 64 E. Brookline St., Boston  
Brilco Labs., 1553—63rd St., Bklyn. 19  
Buckingham Wax Corp., Van Dam St. & Borden Ave., L. I. City, N. Y.  
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Clifton Chemical Co., 62 William St., N. Y.  
Crystal Soap & Chem. Co., 6300 State Rd., Phila. 35  
Davies-Young Soap Co., Dayton, O.  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Eagle Soap Corp., Huntington, Ind.  
Essential Chems. Co., 2200 N. 32nd St., Milwaukee 8  
Frontier Chem. Prods., 119 E. Soper St., St. Louis 11  
Fuld Bros., 702 S. Wolfe St., Baltimore  
James Good, Inc., 2107 Susquehanna Ave., Phila.  
Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.  
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia  
Hewitt Soap Co., Dayton, O.  
Hockwald Chem. Co., 135 Mississippi St., San Francisco  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Products Co., 932 W. 38th Place, Chicago  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
Klix Chem. Co., 2460 Third St., San Francisco  
Knoxall Corp., 1005 E. Sumner Ave., Indianapolis  
Kranich Soap Co., 60 Richards St., Brooklyn  
Masury Young Co., 76 Roland St., Boston 29

Midland Labs., Dubuque, Ia.  
National Chem. Laboratories, 825 Lombard St., Phila. 47  
National Milling & Chem. Co., 4601 Nixon St., Phila.  
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Puritan Soap Co., 573 Lyell Ave., Rochester, N. Y.  
Reily Chem. Corp., Ind. Prods. Div., P. O. Box 98, New Orleans, La.  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
Sanders Chem. Co., 2205 N. American St., Phila. 33  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
I. Schneid, Inc., 916 Ashby St., N. W., Atlanta, Ga.  
Shawmut Specialty Co., 311 Centre St., Boston  
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E. B. Snyder Labs., 4450 Leiper St., Phila. 24  
John T. Stanley Co., Inc., 642 W. 30th St., N. Y.  
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Tesco Chemicals, Inc., Atlanta 5, Ga.  
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Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
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James Varley & Sons, 1200 Switzer Ave., St. Louis  
Veneer-O-Wax Corp., 2010 E. Fletcher St., Phila. 25  
Wolf Soap Co., 1116 Wyckoff Ave., Bklyn. 27  
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American Turpentine Farmers Association, Valdosta, Ga.  
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Gulf Naval Stores Supply Co., Whitney Bldg., New Orleans  
Hercules Powder Co., 961 Market St., Wilmington, Del.  
Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.  
Newport Industries, Inc., 230 Park Ave., N. Y.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. 10  
Taylor, Lowenstein & Co., Mobile, Ala.  
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Houchin Machinery Co., Hawthorne, N. J.  
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Philadelphia Pipe Bending Co., 4100 N. 5th St., Phila.  
Pittsburgh Pipe Coil & Bending Co., Etna, Pa.  
Rempe Co., 340 N. Sacramento Blvd., Chicago  
Whitlock Coil Pipe Co., Hartford, Conn.

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Westvaco renders exceptionally thorough service on the alkalis listed below. Incoming orders are checked against master records and any special customer "specs" relayed to the plant. An organized car-inspection system checks lining, coils, fittings, etc., before each car is loaded. A "thief-sample" goes directly to the plant lab for check-analysis. Same-day notification of shipping date, car number and routing goes forward by postcard or telegram. Rush orders are expedited... cars checked from junction to junction if necessary... by alert Traffic Men. You can always count on "super-service" when you specify WESTVACO Alkalis.



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## POLISHES, FURNITURE, AUTO, ETC.

Ampion Corp., 4-88—47th Ave., L. I. City, N. Y.  
 A-M-R Chem. Co., 985 E. 35th St., Bklyn. 10  
 Analab Labs., 285 Franklin St., Boston 10  
 Antiseptol Co., 5524 Northwest Highway, Chicago  
 Baird & McGuire, Inc., Holbrook, Mass.  
 Banner Chemical Prod. Corp., 9 Calumet St., Newark, N. J.  
 Baums Castorine Co., 200 Mathew St., Rome, N. Y.  
 Bilco Chemical Co., 607 DeGraw St., Bklyn.  
 Boston Chemical Industries, 64 E. Brookline St., Boston  
 Brilco Labs., 1553—63rd St., Bklyn. 19  
 Buckingham Wax Corp., Borden Ave. and Van Dam St., L. I. City, N. Y.  
 Candy & Co., 2515 W. 35th St., Chicago  
 Cary Mfg. Co., 2063 Balboa Ave., San Diego 9, Calif.  
 Chem. Service of Balto., Howard & West Sts., Balto.  
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
 Davies-Young Soap Co., Dayton, O.  
 E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
 E. I. du Pont de Nemours & Co., Wilmington  
 Eagle Soap Corp., Huntington, Ind.  
 Federal Varnish Division, S. Ashland Ave. at 29th St., Chicago  
 Fine Organics, Inc., 211 E. 19th St., N. Y.  
 Franklin Research Co., 5134 Lancaster Ave., Phila.  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 Golden Star Polish Mfg. Co., 2901 E. 13th St., Kansas City, Mo.  
 James Good, Inc., 2107 Susquehanna Ave., Phila.  
 Gulf Oil Corp., Pittsburgh 30, Pa.  
 Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.  
 Harley Soap Co., Pierce & Orthodox Sts., Philadelphia  
 Higley Chemical Co., Dubuque, Iowa  
 R. M. Hollingshead Corp., Camden, N. J.  
 Hysan Products Co., 932 W. 38th Place, Chicago  
 S. C. Johnson & Son, Racine, Wisc.  
 K. B. Chem. Co., Dunnell's Lane, Pawtucket, R. I.  
 Klix Chem. Co., 2460 Third St., San Francisco  
 Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
 Knoxall Corp., 1005 E. Sumner Ave., Indianapolis  
 D. S. Lesnever & Son, 213 Summer St., Lynn, Mass.  
 M. & H. Laboratories, 2703-5 Archer Ave., Chicago  
 Magna-Krom Prods., 108 Sumner Ave., Vandergrift, Pa.  
 Masury-Young Co., 76 Roland St., Boston  
 Midland Labs., Dubuque, Ia.  
 New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
 North Coast Soap & Chem. Wks., Seattle, Wash.  
 Oil Specialties & Refining Co., 18 Bridge St., Bklyn.  
 Old Empire Inc., Mt. Prospect & Verona Aves., Newark, N. J.  
 Parlee Co., 310 E. St. Clair, Indianapolis, Ind.  
 J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.  
 Pioneer Mfg. Co., 3053 E. 87th St., Cleveland  
 Puritan Chem. Co., 209 Peters St., S.W., Atlanta  
 Puritan Co., 573 Lyell Ave., Rochester, N. Y.  
 Quaker Chem. Prods. Co., Conshohocken, Pa.  
 Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
 Science Industries, 1509 N. Broadway, St. Louis  
 Scranton Chemical Co., 161 Cedar Ave., Scranton, Pa.  
 Shawmut Specialty Co., 313 Centre St., Boston  
 Shell Chemical Corp., 50 W. 50th St., N. Y. 18  
 Simoniz Co., 2100 Indiana Ave., Chicago 16  
 Skotch Prods. Corp., 2710 Detroit Ave., Cleveland  
 Slick-Shine Co., 207 Astor St., Newark, N. J.  
 E. B. Snyder Labs., 4450 Leiper St., Phila. 24  
 John C. Stalfort & Sons, 319 W. Pratt St., Baltimore  
 Standard Oil Co. (Calif.), 225 Bush St., San Francisco  
 Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
 Standard Oil Co. (Ohio), Midland Bldg., Cleveland  
 H. F. Staples Co., Medford, Mass.  
 Tesco Chemicals, Inc., Atlanta 5, Ga.  
 Trio Chem. Wks., 341 Scholes St., Bklyn.  
 Twi-Laq Chemical Co., 25 No. Portland Ave., Brooklyn  
 Twin City Shellac Co., 340 Flushing Ave., Brooklyn  
 Ultra Chemical Works, 2 Wood St., Paterson, N. J.  
 Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
 U. S. Sanitary Specialties Corp., 1003 S. California Ave., Chicago 12  
 Vestal, Inc., 4963 Manchester St., St. Louis 10  
 Victory Chem. Co., 148 Fairmont Ave., Phila.  
 T. F. Washburn Co., 2244 Elston Ave., Chicago  
 Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
 Windsor Wax Co., Inc., 611 Newark St., Hoboken, N. J.  
 G. H. Wood & Co., Box 34 Toronto, Ont., Canada

## POLISHES, METAL

Ampion Corp., 4-88—47th Ave., L. I. City, N. Y.  
 Analab Laboratories, 285 Franklin St., Boston 10  
 Baird & McGuire, Inc., Holbrook, Mass.  
 Banner Chemical Prod. Corp., 9 Calumet St., Newark, N. J.  
 Bilco Chemical Co., 607 DeGraw St., Brooklyn, N. Y.  
 Buckingham Wax Co., 51-03 Van Dam St., Long Island City, N. Y.  
 Chem. Service of Balto., Howard & West Sts., Balto.  
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
 Click Chem. Corp., 601 S. Columbus Ave., Mount Vernon, N. Y.  
 Davies-Young Soap Co., Dayton, O.  
 E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
 E. I. du Pont de Nemours & Co., Wilmington  
 Eagle Soap Corp., Huntington, Ind.  
 Fine Organics, Inc., 211 E. 19th St., N. Y.  
 Fuld Bros., 702 S. Wolfe St., Balto.  
 Golden Star Polish Mfg. Co., 2901 E. 13th St., Kansas City, Mo.  
 James Good, Inc., 2107 Susquehanna Ave., Phila.  
 Haag Laboratories, 14000 S. Seeley Ave., Blue Island, Ill.  
 R. M. Hollingshead Corp., Camden, N. J.  
 Hysan Products Co., 932 W. 38th Pl., Chicago  
 K. B. Chem. Co., Dunnell's Lane, Pawtucket, R. I.  
 M. & H. Laboratories, 2703-5 Archer Ave., Chicago  
 Magna-Krom Prods., 108 Sumner Ave., Vandergrift, Pa.  
 New Jersey Chemical Co., 56 Park Ave., Lyndhurst, N. J.  
 Noxon, Inc., 812 Jersey Ave., Jersey City, N. J.  
 J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.  
 Old Empire Inc., Mt. Prospect & Verona Ave., Newark, N. J.  
 Perrow Chemical Co., Hurt, Va.  
 J. L. Prescott Co., 27 8th St., Passaic, N. J.  
 Science Industries, 1509 N. Broadway, St. Louis  
 Shawmut Specialty Co., 311 Center St., Boston  
 Simoniz Co., 2100 Indiana Ave., Chicago 16  
 E. B. Snyder Labs., 4450 Leiper St., Phila. 24  
 John C. Stalfort & Sons, 319 W. Pratt St., Baltimore  
 M. D. Stetson Co., 64 E. Brookline St., Boston  
 Tesco Chemicals, Inc., Atlanta 5, Ga.  
 Trio Chem. Wks., 341 Scholes St., Bklyn.  
 Uncle Sam Chemical Co., 573 W. 131st St., N. Y.  
 U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago  
 Wilco Co., 4425 Bandini, Blvd., Los Angeles 23  
 G. H. Wood & Co., Box 34 Toronto, Ont., Canada  
 Walco Prods., Inc., 36 Woodland St., Hartford, Conn.

## POLISHING CLOTHS (see Wiping Cloths)

## POLISHING MACHINES (see Floor Machines)

## POLYETHYLENE (Emulsifiable)

Semet-Solvay Petrochemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6

## POLYETHYLENE, Sheets

Bakelite Division, Carbide & Carbon Chems. Corp., 30 E. 42 St., N. Y. 17  
 E. I. du Pont de Nemours & Co., Wilmington, Del.  
 Fine Chemicals Co., 250 W. 57th., N. Y. 19  
 Monsanto Chemical Co., Springfield 2, Mass.  
 Semet-Solvay Petrochemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6

## POLYVINYLPYRROLIDONE (PVP)

General Aniline & Film Corp., 435 Hudson St., N. Y. 14

## POTASH, CAUSTIC

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
 Columbia-Southern Chemicals, 1 Gateway, Pittsburgh  
 Diamond Alkali Co., Union Commerce Bldg., Cleveland  
 Dow Chem. Co., Midland, Mich.  
 E. I. du Pont de Nemours & Co., Wilmington  
 International Minerals & Chemical Corp., 20 N. Wacker Dr., Chicago  
 Niagara Alkali Co., 60 E. 42nd St., N. Y.

# COLUMBIA-SOUTHERN<sup>®</sup> *Chemicals*

**FOR SOAP MAKING • SPECIAL MIXTURES • REPACKING**

## CAUSTIC SODA

Liquid.....50% and 73% NaOH  
Solid.....76% Na<sub>2</sub>O  
Flake.....76% Na<sub>2</sub>O, Fine and Medium

Columbia-Southern Caustic Soda is especially desirable for the manufacture of soap because of its freedom from impurities and metallic contamination. Liquid grades are shipped in special tank cars which first made practical the shipment of 73% Caustic Liquor in its purest form. Insulation effectively prevents crystallization and the patented lining prevents metallic contamination in transit.

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## CAUSTIC POTASH

Furnished in standard grade of Solid and Flake, and as 50% concentration in Liquid.

Columbia-Southern Caustic Potash is another product of high quality and purity that soap-makers find excellent for use in liquid soap and soft soap manufacture.

## SODA ASH—LIGHT AND DENSE

The original Columbia-Southern chemical. Over a half-century's experience in the manufacture of this essential chemical for soap makers has enabled Columbia-Southern to develop techniques and controls that assure uniform density and regularity of physical form and purity.

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Pacific Crystals are a true sodium sesqui-carbonate—unmodified by mechanical mixing—of a tabular, crystalline structure and fine particle size. They are non-irritating, free-flowing, non-caking. They mix readily with dry materials and dissolve quickly in water.

The gentle, safe action of Pacific Crystals has made it

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## PARA-DICHLOROBENZENE

Columbia-Southern Para-Dichlorobenzene sublimes readily leaving no residue, is soluble in most organic solvents but is insoluble in water. Available in seven mesh sizes to meet the needs of the soap industry in the manufacture of sanitary specialties and deodorants. Shipped in fiber drums, 200, 100, 50 and 25 lbs. net.

## ORTHO-DICHLOROBENZENE

Columbia-Southern Ortho-Dichlorobenzene is a clear, colorless to slightly yellow liquid with a pungent but not unpleasant odor. It is readily soluble in most organic solvents, but is insoluble in water. Used in the preparation of special cleaning agents and for various degreasing compounds. Shipped in 55 gallon drums and 8,000 gallon tank cars.

## PHOSFLAKE

Phosflake is a uniform blend of Caustic Soda and Tri-Sodium Phosphate, prepared in convenient flake form. Especially adapted to machine bottle washing—quick acting, easy to handle (minimizes dust particles that irritate the skin and throat of the operator), superior in sterilizing and rinsing properties.

## MODIFIED SODAS

Mixtures of Sodium Carbonate and Sodium Bicarbonate. Especially useful in cleansing operations requiring a mild alkaline detergent-aid. Manufactured in three grades—No. 100, No. 200 and No. 300—with different degrees of alkalinity.

**TECHNICAL SERVICE** Columbia-Southern's Technical Service is available for developing the most advantageous uses of these or other Columbia-Southern products in your processes.

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## POTASH, CAUSTIC (Contd.)

Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
 Jos. Turner & Co., Ridgefield, N. J.  
 Welch, Holme & Clark Co., 439 West St., N. Y.  
 Westvaco Chlor-Alkali Div., Food Machy. & Chem. Corp., 161 E. 42nd St., N. Y.

## POTASH SOAPS (Soft Soaps, Liquid Soaps, Shampoo Soaps, etc.)

Aid Soap Mfg. Co., Rochester, Pa.  
 American Soap & Washoline Co., Cohoes, N. Y.  
 Ampion Corp., 4-88-47th Ave., L. I. City, N. Y.  
 Analab Labs., 285 Franklin St., Boston 10  
 Antiseptol Co., 5524 Northwest Highway, Chicago  
 Armour Industrial Soap Dept., Chicago 9  
 Baird & McGuire, Inc., Holbrook, Mass.  
 Banner Chemical Products Corp., 9 Calumet St., Newark, N. J.  
 Baums Castorine Co., 200 Mathew St., Rome, N. Y.  
 Boston Chemical Industries, 64 E. Brookline St., Boston  
 Brilco Laboratories, 1553 63rd St., Bklyn. 19  
 Buckingham Wax Co., 51-03 Van Dam St., L. I. City, N. Y.  
 Chem. Service Co. of Balto., Howard & West Sts., Balto.  
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
 Clifton Chemical Co., 62 William St., N. Y.  
 Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
 Creco Co., Creco Bldg., L. I. City, N. Y.  
 Crystal Soap & Chem. Co., 6300 State Rd., Phila. 35  
 Davies-Young Soap Co., Dayton, Ohio  
 Dominion Prods., Inc., 10-40 44 Drive, L. I. C. 1, N. Y.  
 E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
 Duveen Soap Corp., 36-14 35th St., Long Island City 6, N. Y.  
 Eagle Soap Corp., Huntington, Ind.  
 J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.  
 Essential Chemicals, 2200 N. 32nd St., Milwaukee 8  
 Fine Organics, Inc., 211 E. 19th St., N. Y. 3  
 Frontier Chem. Prods., 119 E. Soper St., St. Louis 11  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 James Good, Inc., 2107 Susquehanna Ave., Phila.  
 Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.  
 Harley Soap Co., Pierce & Orthodox Sts., Philadelphia  
 Hewitt Soap Co., Dayton, O.  
 Higley Chemical Co., Dubuque, Iowa  
 Hockwald Chemical Co., 135 Mississippi St., San Francisco  
 R. M. Hollingshead Corp., Camden, N. J.  
 Hysan Products Co., 932 W. 38th Place, Chicago  
 J. Chemical Works, 602 W. 37th St., N. Y.  
 Knoxall Corp., 1005 E. Sumner Ave., Indianapolis, Ind.  
 Kranich Soap Co., 54 Richards St., Brooklyn  
 Los Angeles Soap Co., 617 E. 1st St., Los Angeles, Calif.  
 M. & H. Laboratories, 2705 Archer Ave., Chicago  
 Midland Labs., Dubuque, Ia.  
 Mione Mfg. Co., Collingdale, Pa.  
 Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.  
 National Chem. Laboratories, 825 Lombard St., Phila. 47  
 National Milling & Chem. Co., 4601 Nixon St., Phila. 27  
 National Soap Co., 357 South 25th St., Tacoma, Wash.  
 Nopco Chemical Co., First & Essex Sts., Harrison, N.J.  
 North Coast Chem. & Soap Wks., Seattle, Wash.  
 N. Y. Soap Co., 258 Third St., Brooklyn  
 Oil-Kraft, Inc., 3330 Beekman St., Cincinnati  
 Original Bradford Soap Wks., West Warwick, R. I.  
 G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis, Mo.  
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
 Piatt & Smillie Chemicals, 2329 Pine St., St. Louis 3  
 Puritan Co., 573 Lyell Ave., Rochester, N. Y.  
 Reily Chemical Co., Industrial Prods. Div., P. O. Box 98, New Orleans, La.  
 Rochester Germicide Co., 333 Hollenbeck St., Rochester 5, N. Y.  
 Sanders Chem. Co., 2205 N. American St., Phila. 33  
 Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
 Science Industries, 1509 N. Broadway, St. Louis  
 E. B. Snyder Laboratories, 4450 Leiper St., Phila. 24  
 John T. Stanley Co., 642 W. 30th St., N. Y.  
 Standard Soap Co., Camden, N. J.

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**EASIER to order . . .**

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Order from any of the 18 convenient locations . . . Thompson-Hayward Soaps, disinfectants, insecticides and other sanitary supplies assure you of constant high quality for every purpose.

Large manufacturing facilities in Kansas City and New Orleans provide a full list of T-H chemical products to our 18 branch offices and warehouses, located in strategic cities for fast delivery.

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**Liquid Coconut Soaps . . . all concentrations.**



**Base Soaps . . . coconut and vegetable oil base soaps in all concentrations.**



**Synthetic Scrub Soaps . . . concentrated or ready-to-use.**



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**Oil Adsorbents . . . concrete cleaners of all kinds.**



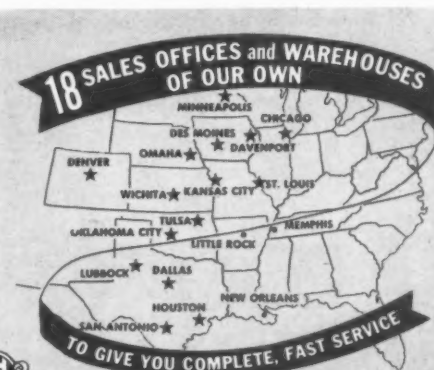
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Acids, alkalies, phosphates, wetting agents, essential oils, perfumes, red oil, solvents and all chemical items.



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 KANSAS CITY, MO.



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UPON the product your manufacturing source puts in a container under your label and brand . . . depends the success or failure of repeat sales.

SANITARY Maintenance Chemical jobbers and distributors have grown to depend on the consistent quality of Fuld Brothers products. And the success of many firms over the past 28 years has been aided materially by the quality products, sales training, merchandising and advertising help of the Fuld organization.



**The Fuld 84 page Descriptive Price Book . . . covering 23 basic sanitary maintenance chemical departments and over 241 products . . . is available to any recognized jobber or distributor. Write today.**

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Ask about Fuld's Color Affect-Lithography Direct-on-the-Container Labeling Process that is revolutionizing private brand labeling. \*C.A.L. is available for your use . . . even in small quantity orders.



## POTASH SOAPS (Contd.)

George Stearns Chem. Corp., 4200 E. Mendota St.,  
Madison, Wisc.  
Swift & Co., Chicago 9  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Thompson-Hayward Chemical Co., 2915 S. W. Blvd.,  
Kansas City, Mo.  
Trio Chem. Wks., 341 Scholes St., Bklyn.  
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave.,  
Chicago 12  
Wolf Soap Co., 1116 Wyckoff Ave., Bklyn. 27  
G. H. Wood & Co., Box 34 Toronto, Ont., Canada  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

## POTASSIUM CARBONATE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
J. T. Baker Chem. Co., Phillipsburg, N. J.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
International Minerals & Chemical Corp., 20 N. Wacker  
Dr., Chicago  
Merck & Co., Rahway, N. J.  
Niagara Alkali Co., 60 E. 42nd St., N. Y.  
Rosenthal Berrow Co., 23 E. 26th St., N. Y. 10  
Solvay Process Div., Allied Chem. & Dye Corp., 61  
Broadway, N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y.

## POTASSIUM PERSULFATE

J. T. Baker Chem. Co., Phillipsburg, N. J.  
Becco Chemical Div., Sawyer Ave. & River Rd.,  
Tonawanda, N. Y.  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector  
St., N. Y. 6  
Merck & Co., Rahway, N. J.  
Penn. Salt Mfg. Co., Widener Bldg., Phila.  
Jos. Turner & Co., Ridgefield, N. J.

## POTASSIUM PHOSPHATES

General Chem. Div., Allied Chem. & Dye Corp., 40 Rector  
St., N. Y. 6  
Monsanto Chemical Co. St. Louis, Mo.  
Victor Chemical Works, 155 N. Wacker Dr., Chicago 6  
Westvaco Mineral Prods. Div., Food Mach. & Chem.  
Corp., 161 E. 42nd St., N. Y. 17

## POTASSIUM SILICATES

E. I. du Pont de Nemours & Co., Wilmington, Del.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Philadelphia Quartz Co., Public Ledger Bldg.,  
Independence Sq., Phila. 6  
Welch, Holme & Clark Co., 439 West St., N. Y.

## POURING SPOUTS (see Can Spouts, Closures)

## POWDERED SOAP (see Soap, Powdered)

## PREMIUMS

Federal Tool Corp., 3600 W. Pratt Blvd., Chicago  
Goody Mfg. Co., 15 E. 22nd St., N. Y. (novelties)  
Hazel-Atlas Co., Wheeling, W. Va. (glassware)  
Holgate Co., Kane, Pa. (woodenware toys)  
Keystone Processed Prods. Co., 683 Broadway, N. Y.

## PRESSES (Automatic Soap)

Consolidated Prods. Co., 59 Garden St., Hoboken, N. J.  
(Used)  
Houchin Machinery Co., Hawthorne, N. J.  
R. A. Jones & Co., P. O. Box 485, Cincinnati 1  
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio,  
Italy  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
Chicago (Used)

1955 BLUE BOOK

## COMPLETE SOURCE FOR COMPLETELY DEPENDABLE

# SOAPS DETERGENTS SANITARY CHEMICALS

Peck's Products are manufactured under strict laboratory control to assure complete uniformity and high quality. We have served the industry as manufacturing chemists and sales consultants for the past 35 years.

## GLYCEROLE COCO SOAPS

From the finest of refined cochineal Coconut Oils. Heavy-bodied, odorless.

## BABCO LIQUID SOAPS

High quality competitive type—noted for price stability in spite of adverse market stability.

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Tested for ability to remove dirt and brighten floors without harm.

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High-sudsing liquids and powders for hand dishwashing. Controlled sudsing for machine use.

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Rich, active suds that grease can't kill. Work well under any type of water conditions.

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Hard green bar soaps. Conveyor lubricants. Extra family soaps. Castle bar soaps.

## POWDERED HAND SOAPS

Specially formulated to clean better without irritation.

## SYNTHETIC DETERGENTS

Made gentle-to-hands yet have full strength cleaning power. High concentration for formulators.



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We're not selling the Brooklyn Bridge.  
No, not even a pig in a poke. The man  
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knows exactly what he's getting —  
*fast knockdown and quick kill.*

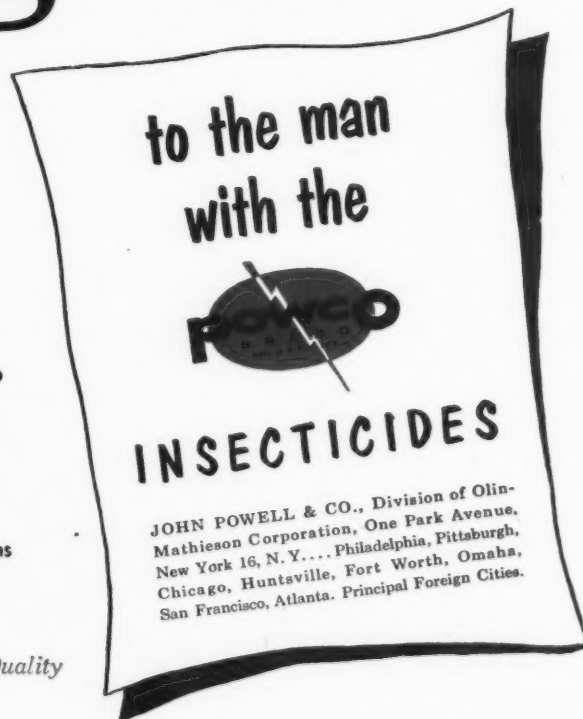
#### **HOUSEHOLD and INDUSTRIAL CONCENTRATES**

Solubility, stability and dependability make POWCO BRAND the leader in this field. Formulations include Pyrethrum, DDT, Lindane, Chlordane, Dieldrin, and Malathion.

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All formulations (regular Powell products or custom made) are subjected to Powell's rigid laboratory control. Formulations include Allethrin, Pyrethrum, Sesamin, Piperonyl Butoxide, DDT, and other approved toxicants.

*LOOK TO POWELL...For Consistent Trouble-Free Quality*



**PRESSES (Foot and Hand Lever for Soap and Para Cakes)**

Consolidated Prods. Co., 59 Garden St., Hoboken, N. J. (Used)  
Houchin Machinery Co., Hawthorne, N. J.  
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used)  
F. J. Stokes Mach. Co., Philadelphia, Pa.

**PRIVATE BRAND FORMULATIONS (see listings under individual headings)**

**PRIVATE LABEL PACKAGING, FILLING (see Packaging for the trade)**

**PROPELLANTS (see Aerosol Propellants)**

**PROTECTIVE HAND CREAMS (see Hand Creams, Protective)**

**PUMICE**

California Industrial Minerals Co., Friant, Calif.  
Chas. B. Chrystal Co., 53 Park Pl., N. Y.  
Heckathorn & Co., 641 S. Fourth St., Richmond, Calif.  
Pacific Coast Pumice Co., Bishop, Calif.  
James J. Rhodes & Co., 157 W. Hubbard St., Chicago  
Wm. R. Rogers, 80 Park St., Beverly, Mass.  
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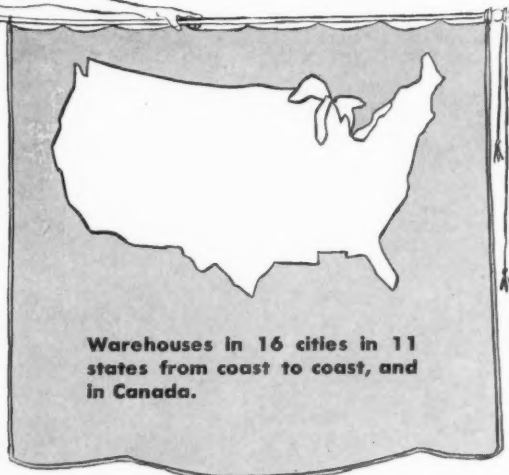
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Dudwell & Co., 120 Wall St., N. Y. 5  
Douglas Chem. Co., 620 E. 16 St., North Kansas City, Mo.  
Fairchild Chem. Div., 420 Lexington Ave., N. Y. 17  
Geigy Agricultural Chemicals, 89 Barclay St., N. Y.  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
McCormick & Co., Baltimore, Md.  
Miller Prods. Co., 1932 S. W. Water Ave., Portland, Ore.  
S. B. Penick & Co., 50 Church St., N. Y.  
John Powell Div., 1 Park Ave., N. Y.  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Private Brands, Inc., 300 S. Market St., Kansas City, Kan.  
Quinn Drug & Chem. Co., Greenwood, Miss.  
Virginia-Carolina Chem. Corp., Richmond 8, Va.

## RUG and UPHOLSTERY CLEANERS

Ampion Corp., 4-88 47th Ave., L. I. City, N. Y.  
Analab Laboratories, 285 Franklin St., Boston 10  
Antara Chemicals, Div. General Aniline & Film Corp., 435 Hudson St., N. Y.  
Armour Industrial Soap, 1355 W. 31st St., Chicago  
Boston Chem. Industries, 64 E. Brookline St., Boston 18  
Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport, Conn.  
Brilco Labs., 1553-63rd St., Bklyn. 19  
Buckingham Wax Corp., Van Dam St. & Borden Ave., L. I. City  
Candy & Co., 2515 W. 35th St., Chicago  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prod. Co., 3100 S. Throop St., Chicago  
Clifton Chemical Co., 62 William St., N. Y.  
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
Davies-Young Soap Co., Dayton, O.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington  
Eagle Soap Corp., Huntington, Ind.  
Essential Chem. Co., 2200 N. 32nd St., Milwaukee 8  
Fine Organics, Inc., 211 E. 19th St., N. Y. 3  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Golden Star Polish Mfg. Co., 2901 E. 13th St., Kansas City, Mo.

James Good, Inc., 2107 Susquehanna Ave., Phila.  
Haag Laboratories, 14000 S. Seeley Ave., Blue Island, Ill.  
Hockwald Chemical Co., 135 Mississippi St., San Francisco

Hysan Prods. Co., 932 W. 38th Place, Chicago  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
Kwik Products Co., 451 W. 28th St., N. Y.  
M. & H. Laboratories, 2705 Archer Ave., Chicago  
Magna-Krom Prods., 108 Sumner Ave., Vandergrift, Pa.  
M. Michel & Co., 90 Broad St., N. Y.  
Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
Nopco Chem. Co., First & Essex Sts., Harrison, N. J.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2  
Oronite Chemical Co., 200 Bush St., San Francisco 4  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
Philadelphia Quartz Co., Public Ledger Bldg., Phila.  
I. Schneid, 916 Ashby St., Atlanta, Ga.  
Science Industries, 1509 N. Broadway, St. Louis  
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland  
Swift & Co., Chicago  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Trio Chem. Wks., 341 Scholes St., Bklyn.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Uncle Sam Chem. Co., 573 W. 131st St., N. Y. C.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12  
James Varley & Sons, 1200 Switzer Ave., St. Louis  
Warwick Chem. Co., 10-10 44th Ave., Long Island City, N. Y.  
Washine-National Sands, Inc., 37-02 Northern Blvd., Long Island City  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
G. H. Wood & Co., Box 34, Toronto, Ont., Canada  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.  
Zeen Chemical Co., 2000 Elm St., Cleveland 13

## RUG AND UPHOLSTERY CLEANING MACHINES (see Vacuum Cleaners)

## RUST REMOVERS AND PROOFERS

Ampion Corp., 4-88 47th Ave., Long Island City, N. Y.  
Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport, Conn.  
E. I. du Pont de Nemours & Co., Wilmington  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
Hysan Products Co., 932 W. 38th Place, Chicago  
Nopco Chemical Co., First & Essex Sts., Harrison, N. J.  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis, Mo.  
Penna. Salt Mfg. Co., Widener Bldg., Phila.  
Science Industries, 1509 N. Broadway, St. Louis  
E. B. Snyder Laboratories, 4550 Leiper St., Phila. 24  
Warwick Chem. Co., 10-10 44th Ave., Long Island City, N. Y.  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23

## SADDLE SOAP

Armour & Co., 1355 W. 31st St., Chicago  
Baum's Castorine Co., Rome, N. Y.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
Davies-Young Soap Co., Dayton, O.  
James Good, Inc., 2107 Susquehanna Ave., Phila.  
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Rome Soap Mfg. Co., Rome, N. Y.  
E. B. Snyder Labs., 4450 Leiper St., Phila. 24  
John T. Stanley Co., 642 W. 30th St., N. Y.  
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E. I. du Pont de Nemours & Co., Wilmington, Del.  
Rosenthal Berrow Co., 23 E. 26th St., N. Y. 10  
Solvay Process Div., Allied Chem. & Dye Corp., 61  
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Welch Holme & Clark Co., 439 West St., N. Y.

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Columbia-Southern Chem. Corp., 1 Gateway, Pittsburgh  
Dow Chemical Co., Midland, Mich.  
International Salt Co., 475 Fifth Ave., N. Y.  
LeRoy Salt Co., LeRoy, N. Y.  
Michigan Chem. Corp., St. Louis, Mich.  
Penna. Salt Mfg. Co., Widener Bldg., Phila.  
Pomeroy Salt Co., Pomeroy, Ohio  
Solvay Process Div., Allied Chem. & Dye Corp., 61  
Broadway, N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y.

## SALT WATER SOAP (Marine Soaps)

Aid Soap Mfg. Co., Rochester, Pa.  
Antiseptol Co., 5524 Northwest Highway, Chicago  
Armour Soap Wks., 1355 W. 31st St., Chicago  
Chicago Sanitary Prods. Co., 3100 S. Throop St.,  
Chicago 8  
J. Eavenson & Sons, Camden, N. J.  
Duveen Soap Corp., 36-14 35th St., Long Island City 6,  
N. Y.  
Essential Chems. Co., 2200 N. 32nd St., Milwaukee 8  
Hewitt Soap Co., Dayton, O.  
Kamen Soap Products Co., 233 Broadway, N. Y. C.  
Los Angeles Soap Co., 617 E. 1st St., Los Angeles  
Miranol Chemical Co., 277 Coit St., Irvington, N. J.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey  
City 2 N. J.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Procter & Gamble Dist. Co., Cincinnati, O.  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Swift & Co., Chicago  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

## SAND URNS

Atlantic Stamping Co., 156 Ames St., Rochester, N. Y.  
Atlas Prods. Co., 3825 S. Racine Ave., Chicago  
Compeco Corp., 2251 W. St. Paul Ave., Chicago 47  
Ex-Cell Prods. Corp., 2037 W. Churchill St., Chicago  
Franklin Metal Prods. Co., 1500-02 S. Wabash Ave.,  
Chicago  
Rochester Can Co., 88 Greenleaf St., Rochester 9, N. Y.  
Shore Metal Products, 2881 E. Pico Blvd., Los Angeles  
F. H. Lawson Co., 852 Evans St., Cincinnati 4, O.  
Rochester Can Co., 88 Greenleaf St., Rochester 9, N. Y.  
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## SANDERS (see Floor Scrapers)

## SANITIZERS (see Disinfectants, Quaternary; also Detergents, Antiseptic)

## SAPONIN

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Leeben Chemical Co., 140 West Broadway, N. Y. 13  
S. B. Penick & Co., 50 Church St., N. Y. 7  
Prentiss Drug & Chem. Co., 110 William St., N. Y.

## SCALES (see Weighing Equipment)

## SCOURING POWDERS

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American Soap & Washoline Co., Cohoes, N. Y.  
Armour Industrial Soap Dept., Chicago 9  
B. T. Babbitt, Inc., 386-4th Ave., N. Y. 16  
Britex Corp., 17-18 Lewis Wharf, Boston 10  
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.

Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
Crystal Soap & Chem. Co., 6300 State Rd., Phila.  
Cudahy Packing Co., 221 N. LaSalle St., Chicago  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Du Bois Soap Co., Cincinnati, O.  
Eagle Soap Corp., Huntington, Ind.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Higley Chem. Co., Dubuque, Iowa  
Hunnewell Soap Co., 114 W. 2nd St., Cincinnati  
Hysan Prods., 932 W. 38th Place, Chicago  
J. Chemical Works, 602 W. 37th St., N. Y. 18  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
Los Angeles Soap Co., 617 E. First St., Los Angeles  
Midland Labs., Dubuque, Ia.  
Murro Chemical Co., Portsmouth, Va.  
National Milling & Chem. Co., 4601 Nixon St., Phila. 24  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave.,  
St. Louis, Mo.  
Pal Products Mfg. Corp., 180 Sullivan St., Brooklyn 32  
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Port Huron Detergent Co., Port Huron, Mich.  
Procter & Gamble Dist. Co., Cincinnati  
Puritan Chem. Co., 916 Ashby St., N.W., Atlanta  
S. & S. Soap Co., 815 E. 135th St., N. Y. 54  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
E. B. Snyder Laboratories, 4450 Leiper St., Phila. 24  
John T. Stanley Co., 642 W. 30th St., N. Y.  
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U. S. Sanitary Specialties Corp., 1001 S. California Blvd.,  
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Virginia-Carolina Chem. Corp., Richmond 8, Va.  
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.  
G. H. Wood & Co., Box 34, Toronto, Ont., Canada  
Allen B. Wrisley Co., 601 W. 65th St., Chicago  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte,  
Mich.

## SCOURING SOAPS (Bars)

Aid Soap Mfg. Co., Rochester, Pa.  
American Soap & Washoline Co., Cohoes, N. Y.  
Baum's Castorine Co., Rome, N. Y.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Cudahy Packing Co., 221 N. LaSalle St., Chicago  
James Good, Inc., 2107 E. Susquehanna Ave., Phila.  
Hewitt Soap Co., Dayton, O.  
Hunnewell Soap Co., 114 W. 2nd St., Cincinnati  
Los Angeles Soap Co., 617 E. 1st St., Los Angeles  
Murro Chemical Co., Portsmouth, Va.  
National Soap Co., P. O. Box 1631, Tacoma, Wash.  
Peck's Products Co., 610 E. Clarence Ave., St. Louis  
Port Huron Detergent Co., Port Huron, Mich.  
Procter & Gamble Dist. Co., Cincinnati, O.  
Schmidt Soap Products Co., 236 W. North Ave., Chicago  
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Swift & Co., Chicago  
Warren Soap Mfg. Co., 51 Waverly St., Cambridge,  
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Allen B. Wrisley Co., 6801 W. 65th St., Chicago

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B. F. Gump Co., 1338 S. Cicero Ave., Chicago  
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Davies-Young Soap Co., Dayton, O.  
Eagle Soap Corp., Huntington, Ind.  
Federal Varnish Division, S. Ashland Ave. at 29th St., Chicago  
Franklin Research Co., 5134 Lancaster Ave., Phila. 31  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Hysan Prods. Co., 932 W. 38th Place, Chicago 9  
Peck's Products Co., 610 Clarence Ave., St. Louis 15  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
L. Sonneborn Sons, 300 4th Ave., N. Y.  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago  
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B. F. Gump Co., 1338 S. Cicero Ave., Chicago  
New Jersey Machine Corp., Hoboken, N. J.  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used)  
St. Regis Paper Co., 230 Park Ave., N. Y.  
Standard-Knapp Div., Portland, Conn.  
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Consolidated Products Co., 59 Garden St., Hoboken, N. J. (Used)  
J. L. Ferguson Co., Joliet, Ill.  
Houchin Machinery Co., Hawthorne, N. J.  
R. A. Jones & Co., Covington, Ky.  
New Jersey Machine Corp., Hoboken, N. J.  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used)  
Perl Mach. Mfg. Co., 68 Jay St., Bklyn. 1, N. Y. (Tubes)  
Pneumatic Scale Corp., North Quincy, Mass.  
F. B. Redington Co., 112 S. Sangamon St., Chicago  
Standard-Knapp Div., Portland, Conn.  
Stokes & Smith Co., 4915 Summerdale Ave., Philadelphia  
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Antara Chemicals, Div. General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
Blockson Chem. Co., Joliet, Ill.  
Carbide & Carbon Chemicals, 30 E. 42nd St., N. Y. 17  
Geigy Industrial Chems., 89 Barclay St., N. Y. 8  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
Glyco Products Co., 350 5th Ave., N. Y.  
Marchon Prods. Ltd., Whitehaven, Cumberland, England  
M. Michel & Co., 90 Broad St., N. Y.  
Chas. Pfizer & Co., 630 Flushing Ave., Bklyn.  
Quaker Chem. Prods. Co., Conshohocken, Pa.  
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Salt Lake City: NYLON-KOBURN CHEMICALS INC., 226 W. 3rd South St., Salt Lake City 1, Utah  
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Westvaco Chlor Alkali Div., Food Machy. & Chem. Corp.,  
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Wyandotte Chemicals Corp., Michigan Alkali Div.,  
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Aceto Chem. Co., 40-40 Lawrence St., Flushing, N. Y.  
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American Alcolac Corp., 3440 Fairfield Rd., Balto.  
Antara Chemicals, Div. Gen. Aniline & Film Corp., 435  
Hudson St., N. Y.  
Armour & Co., 1355 W. 31st St., Chicago  
Atlantic Refining Co., 260 S. Broad St., Phila.  
Baird & McGuire, Inc., South St., Holbrook, Mass.  
Buckingham Wax Co., Van Dam St. & Borden Ave.,  
L. I. City, N. Y.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
Continental Car-Na-Var Corp., Brazil, Ind.  
Davies-Young Soap Co., Dayton, O.  
Dominion Prods., Inc., 10-40 44 Drive, Long Island  
City 1, N. Y.  
E. I. du Pont de Nemours & Co., Wilmington  
Duveen Soap Corp., 36-14 35th St., Long Island City,  
N. Y.  
Eagle Soap Corp., Huntington, Ind.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Fine Organics, Inc., 211 E. 19th St., N. Y. 3  
Geigy Industrial Chems., 89 Barclay St., N. Y. 8  
James Good, Inc., 2107 Susquehanna Ave., Phila.  
Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue  
Island, Ill.  
R. M. Hollingshead Corp., Camden, N. J.  
Hewitt Soap Co., Dayton, O.  
Hockwald Chemical Co., 135 Mississippi St., San  
Francisco  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Knapp Prods. Co., Lodi, N. J.  
Kranich Soap Co., 60 Richards St., Brooklyn  
Maywood Chem. Wks., 100 W. Hunter Ave., Maywood,  
N. J.  
M. Michel & Co., 90 Broad St., N. Y.  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
Mona Industries, Inc., 65 E. 23 St., Paterson, N. J.  
Old Empire Inc., Mt. Prospect & Verona Ave., Newark,  
N. J.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey  
City 2  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Procter & Gamble Dist. Co., Cincinnati 1  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
Stepan Chemical Co., 20 N. Wacker Drive, Chicago  
John T. Stanley Co., 624 W. 30th St., N. Y.  
Swift & Co., Chicago 9  
Trio Chem. Wks., 341 Scholes St., Bklyn.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave.,  
Chicago 12  
Van Dyk & Co., Belleville 9, N. J.  
Warwick Chemical Co., 10-10 44th Ave., L. I. C., N. Y.  
Wolf Soap Co., 1116 Wyckoff Ave., Bklyn. 27  
Allen B. Wisley Co., 6801 W. 65th St., Chicago

#### SHAMPOOS, POWDER AND CAKE

Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Davies-Young Soap Co., Dayton, O.  
Emulsol Chemical Corp., 59 E. Madison St., Chicago  
Hewitt Soap Co., 333 Linden Ave., Dayton, O.  
Hysan Prods. Co., 932 W. 38th Pl., Chicago 9  
Kranich Soap Co., 60 Richards St., Brooklyn  
Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
M. Michel & Co., 90 Broad St., N. Y. 4  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Piatt & Smillie Chemicals, 2329 Pine St., St. Louis 3  
Schmidt Soap Products Co., 236 W. North Ave., Chicago  
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Davies-Young Soap Co., Dayton, O.  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Fuld Bros., 702 S. Wolfe St., Baltimore  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Los Angeles Soap Co., 617 E. First St., Los Angeles  
Maywood Chem. Wks., 100 W. Hunter Ave., Maywood, N. J.  
M. Michel & Co., 90 Broad St., N. Y.  
Miranol Chemical Co., 277 Coit St., Irvington, N. J.  
Mona Industries, Inc., 65 E. 23 St., Paterson, N. J.  
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark, N. J.  
Onyx Oil & Chemical Co., Warren & Morris Sts. Jersey City 2  
Oronite Chemical Co., 200 Bush St., San Francisco 4  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
Stepan Chem. Co., 20 N. Wacker Drive, Chicago  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
U. S. Sanitary Spec. Corp., 1001 S. California Ave., Chicago 12  
Verona Chem. Co., 26 Verona Ave., Newark, N. J.

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Aceto Chem. Co., 40-40 Lawrence Ave., Flushing, N. Y.  
Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport, Conn.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8  
Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
Davies-Young Soap Co., Dayton 1, O.  
Duveen Soap Corp., 36-14 35th St., Long Island City, N. Y.  
Eagle Soap Corp., Huntington, Ind.

Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark, N. J.  
Schmidt Soap Products Co., 236 W. North Ave., Chicago  
John T. Stanley Co., 642 W. 30th St., N. Y.

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E. I. du Pont de Nemours & Co., Wilmington  
Duveen Soap Corp., 36-14 35th St., Long Island City, N. Y.  
Harchem Div., Wallace & Tiernan, Inc., Box 178, Newark, N. J.  
Miranol Chemical Co., 277 Coit St., Irvington, N. J.  
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark, N. J.  
Refined Prods. Corp., Lyndhurst, N. J.  
Robinson Wagner Co., 110 E. 42nd St., N. Y.  
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Van Dyk & Co., Belleville 9, N. J.  
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Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
Duveen Soap Corp., 36-14 35th St., Long Island City 6, N. Y.  
Hewitt Soap Co., Dayton, O.  
Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
Los Angeles Soap Co., 617 E. 1st St., Los Angeles  
Procter & Gamble Dist. Co., Cincinnati  
Schmidt Soap Products Co., 236 W. North Ave., Chicago  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

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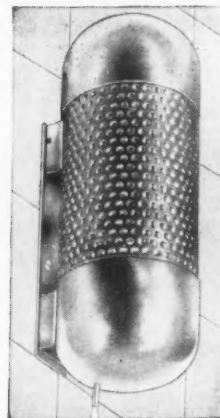
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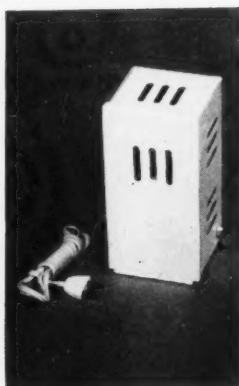
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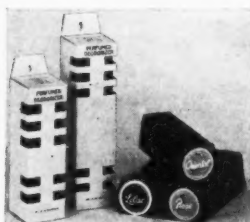
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James Good, Inc., 2107 Susquehanna Ave., Phila.  
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K. B. Chem. Co., Dunnell's Lane, Pawtucket, R. I.  
D. S. Lesnever & Son, 213 Summer St., Lynn, Mass.  
H. F. Staples Co., Medford, Mass.  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
Windsor Wax Co., 611 Newark St., Hoboken, N. J.  
Walco Prods., Inc., 36 Woodland St., Hartford, Conn.

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American Cork Specialties Co., 140 Junius St., Brooklyn  
Applicator Brush Co., 100 Water St., Brooklyn, N. Y.  
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Armstrong Cork Co., Lancaster, Pa.

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#### SIFTER TOP CANS (see Cans, Sifter Top)

#### SILICA

Chas. B. Chrystal Co., 53 Park Pl., N. Y.  
Dicalite Div., 612 S. Flower St., Los Angeles, Calif.  
Illinois Silica Co., Cairo, Ill.  
Johns-Manville Corp., 22 E. 40th St., N. Y.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. C.  
Silica Prods. Co., 700 Baltimore Ave., Kansas City, Mo.  
Tamms Industries, Inc., 228 N. LaSalle St., Chicago  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Whittaker, Clark & Daniels, 260 W. Bway., N. Y.  
Witco Chemical Co., 122 E. 42 St., N. Y.

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#### SILICONES

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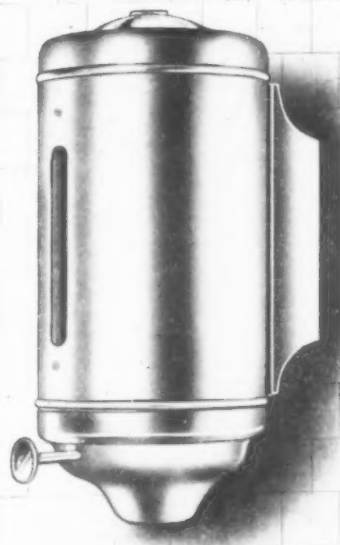
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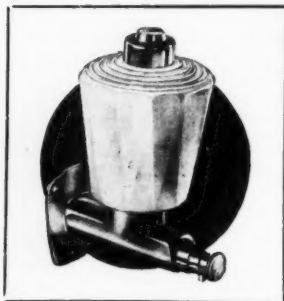
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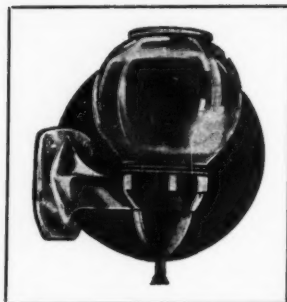
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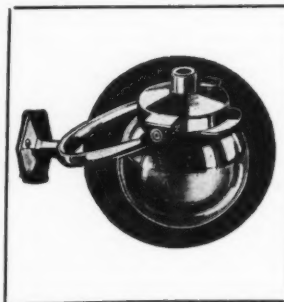
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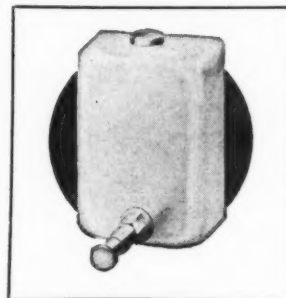
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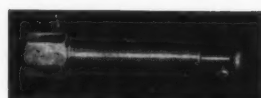


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Chem. Service of Balto., Howard & West Sts., Balto.  
Clifton Chemical Co., 62 William St., N. Y.  
Eagle Soap Corp., Huntington, Ind.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Imperial Brass Co., 1237 W. Harrison St., Chicago  
Moore Bros. Co., 101 Warren St., N. Y.  
National Soap Dispenser Co., 10210 LaSalle Ave., Los Angeles (paste)  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis, Mo.  
Palmer Fixture Co., Waukesha, Wisc.  
Sugar Beet Prods. Co., Saginaw, Mich.

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Chem. Service of Balto., Howard & West Sts., Balto.  
Clifton Chemical Co., 62 William St., N. Y.  
Federal Tool Corp., 3600 W. Pratt Blvd., Chicago 45  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Moore Bros. Co., 101 Warren St., N. Y.  
Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
Pacific Coast Borax Co., 100 Park Ave., N. Y. 17  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10  
Palmer Fixture Co., Waukesha, Wisc.  
Presto Mfg. Co., 770 Cromwell Ave., St. Paul, Minn.  
Sugar Beet Prods. Co., Saginaw, Mich.  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
U. S. Sanitary Specialties Corp., 1001 S. Calif. Ave., Chicago 12  
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada

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Bobrick Dispensers, Inc., 1216 Nostrand Ave., Bklyn. 25  
Eagle Soap Corp., Huntington, Ind.  
Hysan Prods. Co., 932 W. 38th Pl., Chicago 9  
Imperial Brass Co., 1237 W. Harrison St., Chicago  
Moore Bros. Co., 101 Warren St., N. Y.  
Ped-O-Flo Co., Waverly, Iowa  
Vestal, Inc., 4963 Manchester St., St. Louis  
U. S. Sanitary Spec. Corp., 1001 S. California Ave., Chicago 12  
G. H. Wood & Co., Box 34, Toronto, Ont., Canada

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Bobrick Dispensers, Inc., 1216 Nostrand Ave., Bklyn. 25  
Clifton Chemical Co., 62 William St., N. Y.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Imperial Brass Co., 1237 W. Harrison St., Chicago  
Moore Bros. Co., 101 Warren St., N. Y.  
Palmer Fixture Co., Waukesha, Wis.  
Spraying Systems Co., 3217 Randolph St., Bellwood, Ill.  
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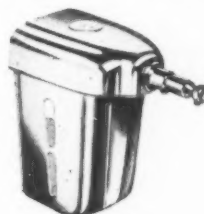
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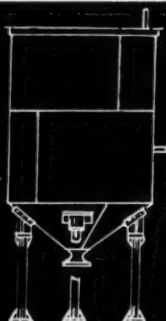
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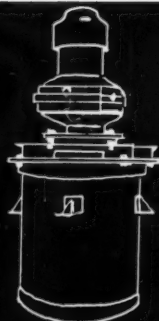


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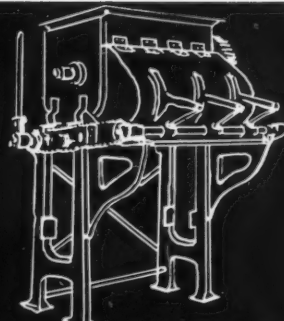
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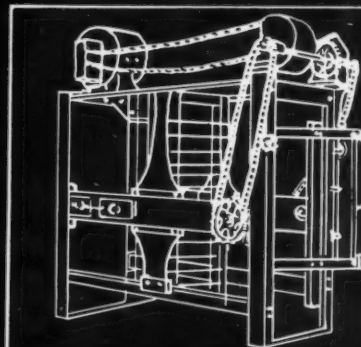
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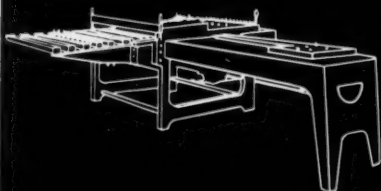
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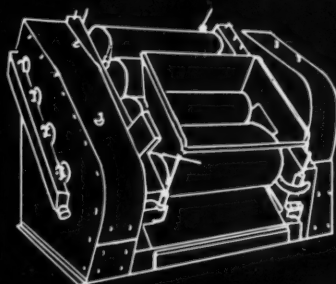
Look to Houchin for further revolutionary improvements.



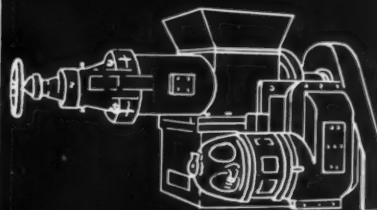
SLABBERS



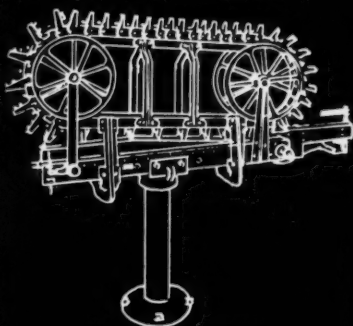
LAUNDRY SOAP CUTTERS



MILLS WITH GRANITE OR CHILLED  
IRON ROLLS



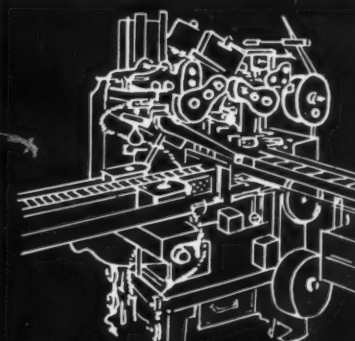
PLODDERS



CONTINUOUS SCRAPLESS  
ADJUSTABLE TOILET SOAP CUTTERS



PRESSES—FOOT OR AIR OPERATED



WRAPPERS FOR ALL SIZES OF SOAP

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U. S. Sanitary Specialties Corp., 1001 S. Calif. Ave.,  
Chicago 12  
West Disinfecting Co., Long Island City, N. Y.  
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada

## SOAP DIES

Anthony J. Fries & Son Co., 717 Sycamore St., Cincinnati  
Houchin Machinery Co., Hawthorne, N. J.  
R. A. Jones & Co., Covington, Ky.  
Jas. H. Matthews & Co., 3942 Forbes St., Pittsburgh  
Newman Tallow & Soap Machy. Co., 1051 W. 36th St.,  
Chicago  
I. Schwartz Engraving & Die Works, 241 Lafayette St.,  
N. Y.

## SOAP DRYERS (See Drying Machinery)

## SOAP, FLOATING (see Floating Soaps)

## SOAP FRAMES (see Frames, Soap)

## SOAP, HAND (see Hand Soaps)

## SOAP, HARD WATER (see Hard Water Soaps)

## SOAP KETTLES

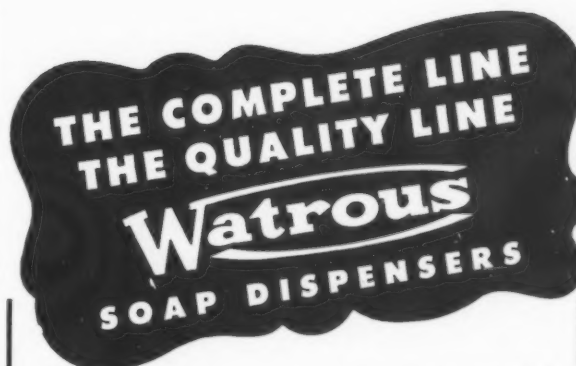
Bethlehem Foundry & Mach. Co., Grand Cent. Bldg.,  
N. Y.  
Bennett Industries, Peotone, Ill.  
S. Buckman, Inc., 72 Gregory Ave., Weehawken, N. J.  
Conn & Co., Warren, Pa.  
Consolidated Products Co., 59 Garden St., Hoboken, N. J.  
(Used)  
J. H. Day Co., 1444 Harrison Ave., Cincinnati  
Edge Moor Iron Wks., 30 Rockefeller Plaza, N. Y.  
Filpaco Industries, 2464 S. Michigan Ave., Chicago  
Houchin Machinery Co., Hawthorne, N. J.  
Industrial Process Engineers, 8 Lister Ave., Newark 5,  
N. J.  
Lancaster Iron Works, 564 S. Prince St., Lancaster, Pa.  
Littleford Bros., 443 E. Pearl St., Cincinnati  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
Chicago  
Pfaudler Co., 1000 West St., Rochester, N. Y.  
Read Standard Corp., York, Pa.  
Geo. C. Rodgers Co., 2401 Third Ave., N. Y.  
Chas Ross & Son Co., 148 Classon Ave., Brooklyn 5  
Sowers Mfg. Co., 1296 Niagara St., Buffalo, N. Y.  
Struthers-Wells Co., Warren, Pa.  
U. S. Stoneware Co., Akron 9, O. (Porcelain)

## SOAP, LAUNDRY (see Laundry Soap)

## SOAP, LIQUID (see Potash Soaps)

## SOAP MACHINERY

Buhler Bros., Inc., 2121 State Highway No. 4, Fort Lee,  
N. J.  
Consolidated Products Co., 59 Garden St., Hoboken, N. J.  
(Used)  
Houchin Machinery Co., Hawthorne, N. J.  
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.  
Meccaniche Moderne, Busto Arsizio, Italy  
G. Mazzoni, SPA, Busto Arsizio, Italy  
Micro Processing Equipment, Inc., Savage, Minn.  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
Chicago  
H. K. Porter Co., 49th and Harrison Sts., Pittsburgh  
Read-Standard Corp., York, Pa.



M-998 Liquid  
L-999 Lather

New Tear Drop design  
wall mounted dispensers



M-807  
Liquid  
M-867  
Lather  
Wall mounted  
dispensers with glass con-  
tainers

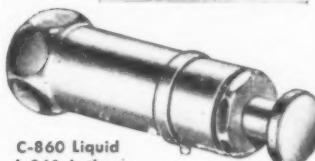


M-807-MJ  
Liquid  
M-867-MJ  
Lather

Wall mounted  
dispensers with  
metal contain-  
ers



C-866 Liquid  
C-868 Lather  
Lavatory mounted  
valves



C-860 Liquid  
L-861 Lather  
Wall mounted valves



M-801 Liquid  
M-894 Lather

Lavatory mounted dispensers  
Also available with metal  
containers

M-801-MJ  
M-894-MJ

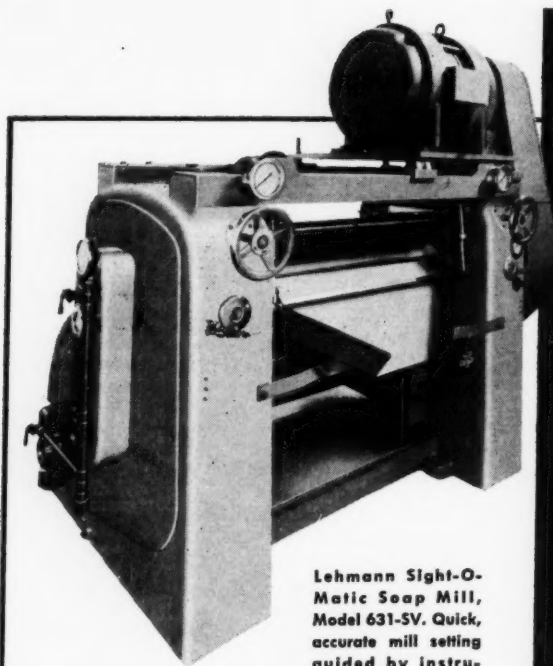


M-815  
Liquid  
Push-up type  
wall mounted  
dispenser

Also many other styles; write for Catalog No. 884-W

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**Lehmann Sight-O-Matic Soap Mill, Model 631-SV.** Quick, accurate mill setting guided by instruments. Rolls adjusted

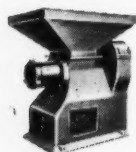
by handwheels and gauges to obtain optimum pressure levels for feed and take-off rolls quickly. Accurate pneumatic setting of take-off knife accomplished by handle and gauge. Cooling water regulated by dial thermometers, resulting in production savings. This instrumentation facilitates quality control and reduces costs.

# LEHMANN SOAP FINISHING MACHINES *for profitable production*

Lehmann Soap Finishing Machines offer manufacturers opportunities for substantial reduction in production costs — essential in these days of increasing competition. One unit particularly, the new Sight-O-Matic Soap Mill, gives the manufacturers of toilet soap and soap flakes a piece of equipment that can have marked effect in lowering costs, by minimizing the human element in mill operation.

Under today's high wage standards, man power is an expensive commodity. Make the most of it by supplementing it with the most efficient labor-saving machinery. Make use of Lehmann test facilities and engineering service on any of your processing machinery problems.

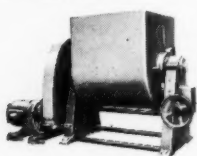
If you are not ready for new equipment, examine the advisability of a thorough factory reconditioning of manufacturing units that are still capable of efficient production. Ask us about Lehmann Certified Factory Reconditioning.



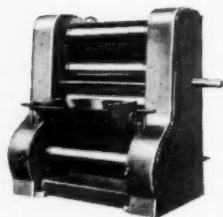
**Lehmann 310-P**  
Preliminary Plodder.



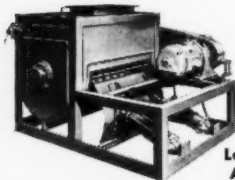
**Lehmann 310-F**  
Finishing Plodder.



**Lehmann 260-400 lb.**  
Tilting Type Amalgamators.



**Lehmann 912-SA**  
Five Roll Finishing Mill



**Lehmann Bottom Dump**  
Amalgamator 40 G-B.

Lehmann is familiar with the problems involved in processing detergent soaps as they relate to the machinery to be employed. Whether your problem be detergent soaps or your regular soap products, consult Lehmann.



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MAIN OFFICE AND FACTORY: 566 NEW YORK AVE., LYNDBURST, N. J.



## SOAP MACHINERY (Contd.)

Chas. Ross & Son Co., 148 Classon Ave., Bklyn. 5  
Sharp Bros., 201 Orient St., Bayonne, N. J. (Cutters)  
Henry Simon Ltd., Stockport, Cheshire, England  
Vickers-Armstrong, Ltd., Westminster, London, England

## SOAP, MARINE (see Hardwater Soaps)

## SOAP, MEDICINAL, CAKE (see Medicinal Soaps)

## SOAP MILLS

Buhler Bros., 2121 State Highway No. 4, Fort Lee, N. J.  
J. H. Day Co., Inc., Harrison Ave. & Bogen St., Cincinnati, O.  
Houchin Machy. Co., Hawthorne, N. J.  
Kent Mach. Wks., 37 Gold St., Bklyn. 1  
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.  
Meccaniche Moderne, Busto Arsizio, Italy  
Franklin P. Miller & Son, 36 Meadow St., East Orange, N. J.  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago  
Chas. Ross & Son Co., 148 Classon Ave., Bklyn. 5  
Troy Engine & Mach. Co., Troy, Pa.  
Vickers-Armstrong, Ltd., Westminster, London, England

## SOAP, MOTTLED (see Mottled Soaps)

## SOAP PAPER (Soap Sheets, Soap Pads, Soap Books—also Soap Cloth)

Burlington Soap Co., 111 Washinton St., Chgo. 2  
Charles F. Hubbs & Co., 383 Lafayette St., N. Y.  
Moore Bros. Co., 101 Warren St., N. Y.

## SOAP, PINE SCRUB (see Pine Scrub Soaps)

## SOAP PERFUMES (see also Aromatic Chemicals, Essential Oils, Perfuming Compounds)

American Aromatics, Inc., 24 E. 21 St., N. Y. 10  
Aromatic Products, Inc., 15 E. 30th St., N. Y.  
Berje Chem. Prods. Co., 359 West Broadway, N. Y.  
Ph. Chaleyer, Inc., 160 E. 56th St., N. Y.  
Charabot & Co., 114 E. 25th St., N. Y.  
Antoine Chiris Co., 212 23rd St., N. Y.  
Delaire, Inc., 114 E. 32nd St., N. Y.  
Dodge & Olcott, Inc., 180 Varick St., N. Y.  
Dow Chemical Co., Midland, Mich.  
P. R. Dreyer, Inc., 601 W. 26th St., N. Y.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Eastman Chem. Prods., Kingsport, Tenn.  
Felton Chemical Co., 603 Johnston Ave., Brooklyn  
Firmenich, Inc., 250 W. 18th St., N. Y.  
Fleuroma, Inc., 38 W. 21st St., N. Y. 10  
Florasynt Labs., 900 Van Nest Ave., N. Y.  
Benj. French, Inc., 160 5th Ave., N. Y.  
Fries & Fries, Inc., 110 E. 70th St., Cincinnati  
Fritzsche Bros., Inc., 76 Ninth Ave., N. Y.  
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.  
Gunning & Gunning, 601 W. 26th St., N. Y.  
D. W. Hutchinson & Co., 700 S. Columbus Ave., Mt. Vernon, N. Y.  
Lautier Fils, 321 Fifth Ave., N. Y.  
Geo. Lueders & Co., 427 Washington St., N. Y.  
Magnus, Mabey & Reynard, 16 Desbrosses St., N. Y.  
A. Maschmeijer, Jr., Div., 630 Fifth Ave., N. Y.  
Neumann Buslee Wolfe, 5800 Northwest Highway, Chicago  
N. Y. Aromatics Corp., High Bridge, N. J.  
Norda Essential Oil & Chem. Co., 601 W. 16th St., N. Y.  
Noville Essential Oil Co., 1312 5th St., N. Bergen, N. J.  
Orbis Products Corp., 601 W. 26th St., N. Y.  
S. B. Penick & Co., 50 Church St., N. Y.  
Perry Bros., Inc., 220 Flushing Ave., Brooklyn  
Polak & Schwartz, Inc., 667 Washington St., N. Y.  
Polak's Frutal Works, 33 Sprague St., Middletown, N. Y.  
Polarome Co., 73 Sullivan St., N. Y. C.  
Reynaud, Ltd., 355 W. 52nd St., N. Y. 19  
Rhodia, Inc., 230 Park Ave., N. Y.

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an unexcelled replacement  
for natural geranium.  
another indication  
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superb research...*



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LABORATORY**

# Pharntolida<sup>®</sup>\*

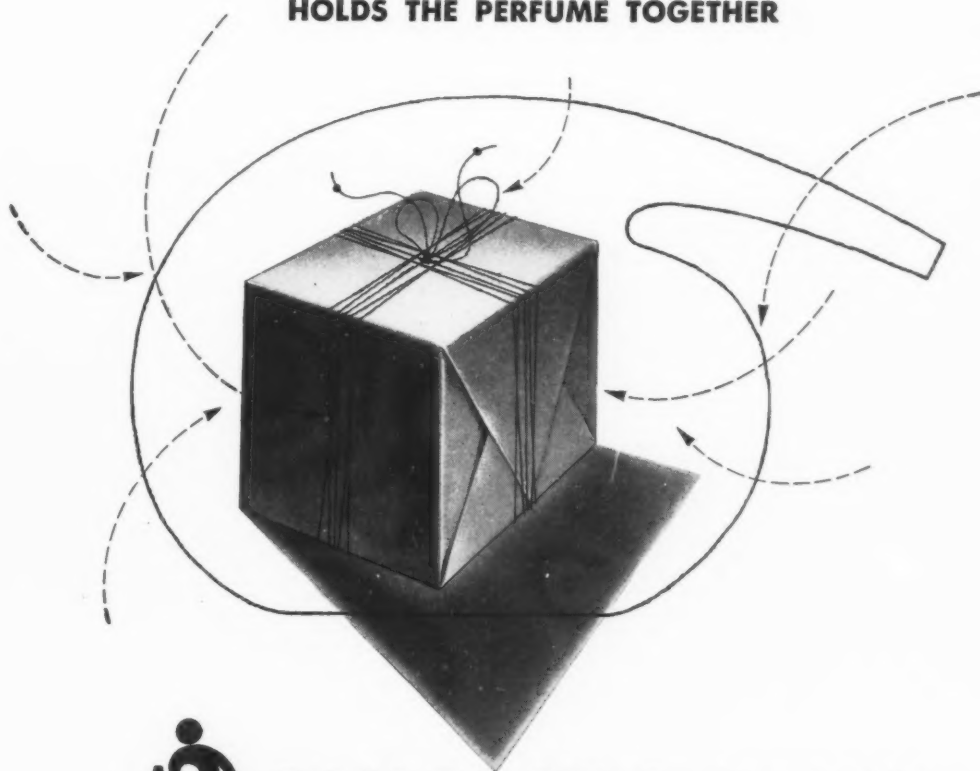
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new  
aromatic chemical  
musk-tonkin type  
lasting, economical**

Useful addition to present standard fixatives

Does not discolor perfumes, creams, soaps, and  
other cosmetic preparations

*Like a string around a package, it...*

**HOLDS THE PERFUME TOGETHER**



**Polak's Frutal Works, Inc.,** Middletown, New York

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An Acetal, ideal for all rose type compounds, because of its fine character, great lift and extreme stability.

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P. Robertet, Inc., 125 E. 23rd St., N. Y. 10  
Roubechez, Inc., 8 E. 12th St., New York  
Roure-Dupont, Inc., 366 Madison Ave., N. Y.  
Edwin Seebach Co., 912 Broadway, N. Y.  
Schimmel & Co., 601 W. 26th St., N. Y.  
Shulton, Inc., Fine Chemicals Div., 630 Fifth Ave., N. Y.  
Tennessee Eastman Corp., 260 Madison Ave., N. Y.  
Seeley & Co., Nyack, N. Y.  
Syndeur Scientific Labs., Monticello, N. Y.  
Syntomatic Corp., 114 E. 32nd St., N. Y.  
Tombarel Prods. Corp., 725 Broadway, N. Y. 3  
Ungerer & Co., 161 Avenue of Americas, N. Y.  
van Ameringen-Haebler, Inc., 521 W. 57th St., N. Y. 19  
Van Dyk & Co., Belleville 9, N. J.  
Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.  
Verona Chem. Corp., 26 Verona Ave., Newark, N. J.

#### SOAP AND DETERGENT PLANT ENGINEERING

Alan Porter Lee Assoc., 19 South St., Morristown, N. J.  
J. W. McCutcheon, Inc., 475 Fifth Ave., N. Y.  
Meccaniche Moderne, Corso Sempione 51, Busto  
Arsizio, Italy  
Project Construction Corp., 39 Broadway, N. Y. 6  
Henry Simon Ltd., Stockport, Cheshire, England  
Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

#### SOAP PLANTS (Continuous Process) (see Continuous Process Soap Plants)

#### SOAP AND DETERGENT SPRAY TOWER INSTALLATIONS

Alan Porter Lee Associates, 19 South St., Morristown, N. J.  
Bowen Engineering, Inc., North Branch, N. J.  
J. W. McCutcheon, Inc., 475 Fifth Ave., N. Y.  
Meccaniche Moderne, Busto Arsizio, Italy  
Nichols Eng. & Research Corp., 70 Pine St., N. Y.  
Proctor & Schwartz, Inc., 7th St. & Tabor Rd., Phila.  
Swenson Evaporator Div., Whiting Corp., Whiting, Ill.  
Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

#### SOAP, POWDERED (White neutral powdered soap, powdered castile soap, etc., 95-99 per cent anhydrous soap. Do not confuse with Soap Powders.)

Armour Industrial Soap Dept., Chicago 9  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8  
Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
Cowles Chem. Co., 7016 Euclid Ave., Cleveland 3  
Davies-Young Soap Co., Dayton, O.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Duven Soap Corp., 36-14 35th St., Long Island City, N. Y.  
General Biochemicals, Inc., Chagrin Falls, O.  
Kranich Soap Co., 60 Richards St., Brooklyn, N. Y.  
Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
Mione Mfg. Co., Collingdale, Pa.  
Murro Chemical Co., Portsmouth, Va.  
National Milling & Chem. Co., 4601 Nixon St., Phila.  
Nopco Chemical Co., First & Essex Sts., Harrison, N.J.  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
S. B. Penick & Co., 50 Church St., N. Y.  
John Powell Div., 1 Park Ave., N. Y.  
Procter & Gamble Distributing Co., Cincinnati  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
Schmidt Soap Products Co., 236 W. North Ave., Chicago  
Swift & Co., Chicago 9  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.  
Allen B. Wisley Co., 6801 W. 65th St., Chicago, Ill.

#### SOAP POWDERS

(Do not confuse with pure powdered soaps)

Aid Soap Mfg., Co., Rochester, Pa.  
American Soap & Washoline Co., Cohoes, N. Y.  
Armour Industrial Soap Dept., Chicago 9  
Baums Castorine Co., 200 Mathew St., Rome, N. Y.  
Beach Soap Co., Lawrence, Mass.

## Consider **NOW!** **BOWEN** **DETERGENT** **SPRAY DRYERS**

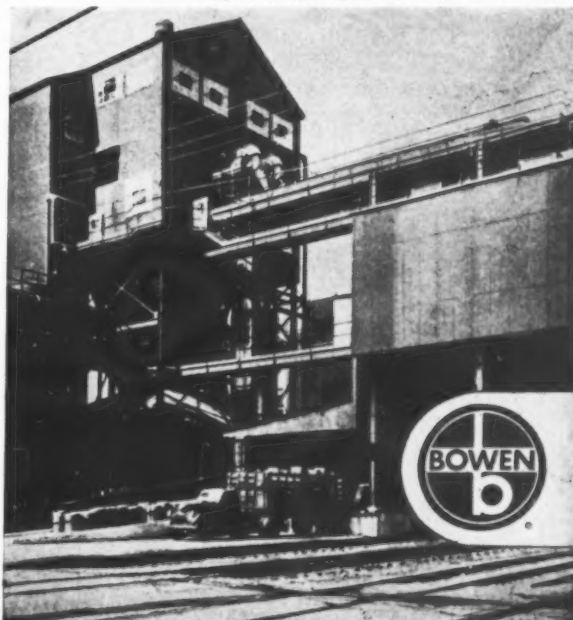
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3. Atomization by Bowen patented centrifugal atomizer or by nozzle.
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Bowen designed Detergent Spray Dryer 30' diameter—75' high



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Chicago Sanitary Prods. Co., 3100 S. Throop Ave., Chicago 8  
Cowles Chemical Co., 7016 Euclid Ave., Cleveland  
Cudahy Packing Co., 221 N. LaSalle St., Chicago  
E. F. Drew & Co., 16 E. 26th St., N. Y. 10  
Du Bois Soap Co., Cincinnati  
East Coast Soap Corp., 89 Coffey St., Bklyn. 31  
J. Eavenson & Sons, Camden, N. J.  
Essential Chems. Co., 2200 N. 32nd St., Milwaukee 8  
Frontier Chem. Prods., 119 E. Soper St., St. Louis, 11  
General Biochemicals, Inc., Chagrin Falls, O.  
R. M. Hollingshead Corp., Camden, N. J.  
Hunnell Soap Co., 114 W. 2nd St., Cincinnati  
Hysan Prods. Co., 932 W. 38th Pl., Chicago 9  
Klix Chem. Co., 2460 Third St., San Francisco  
H. Kohnstamm & Co., 91 Park Pl., N. Y.  
Lever Bros. Co., 390 Park Ave., N. Y.  
Los Angeles Soap Co., 617 E. First St., Los Angeles  
Midland Laboratories, Dubuque, Iowa  
Mione Mfg. Co., Collingdale, Pa.  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
Moss Soap Co., Pinellas Int'l. Airport, St. Petersburg, Fla.  
Murro Chemical Co., Portsmouth, Va.  
National Southern Products, Tuscaloosa, Ala.  
National Milling & Chem. Co., 4601 Nixon St., Phila. 27  
Nopco Chemical Co., First & Essex Sts., Harrison, N.J.  
North Coast Soap & Chem. Wks., Seattle, Wash.  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Port Huron Detergent Co., Port Huron, Mich.  
Procter & Gamble Distributing Co., Cincinnati  
Quaker Maintenance Co., 124 W. 18th St., N. Y. 11  
S. & S. Soap Co., 815 E. 135th St., N. Y. 54  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
Science Industries, 1509 N. Broadway, St. Louis  
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland  
George Stearns Chem. Corp., 4200 E. Mendota St., Madison, Wisc.  
Stevens Soap Corp., 200 Sullivan St., Brooklyn  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Sugar Beet Prods. Co., Saginaw, Mich.  
Swift & Co., Union Stock Yards, Chicago  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
U. S. Sanitary Specialties Corp., 1001 S. California Blvd., Chicago 12  
Vliet Soap Co., 638 Monroe St., Brooklyn  
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.  
G. H. Wood & Co., Box 34, Toronto, Ont., Canada  
Allen B. Wrisley Co., 6801 W. 56th St., Chicago, Ill.  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

## SOAP PRESSES (see Presses)

## SOAP SHEETS (see Soap Paper)

## SOAP SOLUTIONIZING DEVICES (Solutionizing and dispensing devices for soaps and detergents)

Davies-Young Soap Co., Dayton, O.  
Hysan Prods. Co., 932 W. 38th Pl., Chicago 9  
Independent Specialties, 152 W. 75th St., Chicago  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Piatt & Smillie Chemicals, 2329 Pine St., St. Louis  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
U. S. Sanitary Specialties Corp., 1001 S. California Blvd., Chicago 12

## SOAP SLABBERS (see Soap Machinery)

## SOAP STOCK (Boiled down cotton oil soap stock, etc.) (see also Brokers and Dealers)

Archer-Daniels-Midland Co., Minneapolis 2  
Armour & Co., 1355 W. 31st St., Chicago  
T. G. Cooper & Co., Cedar and Venango Sts., Phila.  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Duveen Soap Corp., 36-14 35th St., Long Island City, N. Y.  
Falk & Co., Pittsburgh 30  
Wm. H. Floyd & Co., Los Angeles  
Portsmouth Cotton Oil Refining Co., Portsmouth, Va.  
Procter & Gamble Dist. Co., Cincinnati, O.

Southern Cotton Oil Co., 25 Broad St., N. Y.  
A. E. Staley Mfg. Co., Decatur, Ill.  
Swift & Co., Chicago 9  
Welch, Holme & Clark Co., 439 West St., N. Y.

## SOAP TISSUES, (see Soap Paper)

## SOAP VALVES (see Soap Dispensers, Multi-unit)

## SOAP, WHALE OIL (see Whale Oil Soap)

## SOAP WRAPPING MACHY. (see Wrapping Mach.)

## SOAPLESS DETERGENTS (see Detergents, Synthetic)

## SOAPLESS SHAMPOOS (see Shampoos, Soapless)

## SOAPS, ANTISEPTIC AND DEODORANT (Cake and liquid)

Amaza Laboratories, Macedonia, O.  
Ampion Corp., 4-88 47th Ave., L. I. City, N. Y.  
Analab Laboratories, 285 Franklin St., Boston 10  
Armour Industrial Soap Dept., Chicago 9  
Banner Chemical Prods. Co., 9 Calumet St., Newark 5, N. J.  
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Crystal Soap & Chem. Co., 6300 State Rd., Phila.  
Davies-Young Soap Co., Dayton, O.  
E. F. Drew & Co., 16 E. 26th St., N. Y. 10  
Duveen Soap Corp., 36-14 35th St., Long Island City, N. Y.  
Eagle Soap Corp., Huntington, Ind.  
J. Eavenson & Sons, Camden, N. J.  
Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8  
Frontier Chem. Prods., 119 E. Soper St., St. Louis 11  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Haag Labs., Inc., 14000 S. Seeley Ave., Blue Island, Ill.  
Hewitt Soap Co., 333 Linden Ave., Dayton, O.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
National Chemical Laboratories, 825 Lombard St., Phila.  
Oil Kraft, Inc., 3330 Beekman St., Cincinnati  
Original Bradford Soap Wks., West Warwick, R. I.  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Piatt & Smillie Chemicals, 2329 Pine St., St. Louis 3  
Reily Chem. Corp., Ind. Prods. Div., P. O. Box 98, New Orleans, La.  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland  
Sugar Beet Prods. Co., Saginaw, Mich.  
Swift & Co., Chicago  
Uncle Sam Chem. Co., 575 W. 131st St., N. Y. 27  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago  
James Varley & Sons, 1200 Switzer Ave., St. Louis 15  
Allen B. Wrisley Co., 6801 W. 56th St., Chicago, Ill.

## SOAPS, AUTO (see Potash Soaps)

## SOAPS, FLOATING (see Floating Soaps)

## SOAPS, GRANULATED (see Laundry Soaps, Granulated)

## SOAPS, SCOURING (see Scouring Soaps)

## SOAPS, SCRUBBING (see Floor Scrub Soaps)

## SOAPS, SURGICAL (see Potash Soaps)

## SOAPS, TEXTILE (see Textile Soaps)

## SODA ASH

(see also Dealers)

Amer. Cyanamid Co., 30 Rockefeller Plaza, N. Y. 20  
Columbia-Southern Chem. Corp., 1 Gateway, Pittsburgh  
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Niagara Alkali Co., 60 E. 42nd St., N. Y.  
Olin Mathieson Chem. Corp., Baltimore 3  
Penn Salt Mfg. Co., Widener Bldg., Phila.

## SODA ASH (Contd.)

Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
Virginia-Carolina Chem. Corp., Richmond, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Westvaco Chlor-Alkali Div., Food Machy. & Chem. Corp. 161 E. 42nd St., N. Y.  
Wyandotte Chemicals Co., Michigan Alkali Div., Wyandotte, Mich.

## SODA (Modified)

(see also Dealers)

Columbia-Southern Chem. Corp., 1 Gateway, Pittsburgh  
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. C.  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Stauffer Chem. Co., 380 Madison Ave., N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
Virginia-Carolina Chem. Corp., Richmond, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.

## SODIUM ACID SULFATE (see Nitre Cake)

## SODIUM ARSENITE

California Spray-Chemical Corp., Richmond, Va.  
Chipman Chem. Co., Bound Brooks, N. J.  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Merck & Co., Rahway, N. J.  
Penn Salt Mfg. Co., Widener Bldg., Phila.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. C.  
Shepherd Chem. Co., Cincinnati 12, O.  
Stauffer Chem. Co., 380 Madison Ave., N. Y.

## SODIUM BENZOATE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
J. T. Baker Chem. Co., Phillipsburg, N. J.  
Dow Chemical Co., Midland, Mich.  
Heyden Chem. Corp., 342 Madison Ave., N. Y. 17  
Hooker Electrochem. Co., 4701 Buffalo Ave., Niagara Falls, N. Y.  
Merck & Co., Rahway, N. J.  
Monsanto Chem. Co., St. Louis 4  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. C.  
Seydel Chem. Co., 225 Mercer St., Jersey City, N. J.  
Tennessee Prods. & Chem. Corp., American National Bank Bldg., Nashville, Tenn.

## SODIUM BICARBONATE

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Church & Dwight Co., 70 Pine St., N. Y.  
Columbia-Southern Chem. Corp., 1 Gateway, Pittsburgh  
Diamond Alkali Co., Union Commerce Bldg., Cleve.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Olin Mathieson Chem. Corp., Baltimore 3  
Pennsylvania Salt Mfg. Co., Widener Bldg., Philadelphia  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. C.  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
Victor Chemical Works, 155 N. Wacker Dr., Chicago 6  
Virginia-Carolina Chem. Corp., Richmond 8, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

## SODIUM BICHROMATE

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6

Mallinckrodt Chem. Co., 2nd & Mallinckrodt Sts., St. Louis 7  
Merck & Co., Rahway, N. J.  
Mutual Chemical Co., 99 Park Ave., N. Y.  
Natural Products Refining Co., 900 Garfield Ave., Jersey City, N. J.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. C.  
Jos. Turner & Co., Ridgefield, N. J.

## SODIUM BISULFATE (see Nitre Cake)

## SODIUM CARBONATE (see Soda Ash)

## SODIUM CHLORATE

J. T. Baker Chem. Co., Phillipsburg, N. J.  
Chipman Chem. Co., Bound Brook, N. J.  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Mallinckrodt Chem. Co., 2nd & Mallinckrodt Sts., St. Louis 7  
Merck & Co., Rahway, N. J.  
Oldbury Electrochem. Co., 22 E. 40th St., N. Y.  
Penn Salt Mfg. Co., Widener Bldg., Phila.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. C.  
Jos. Turner & Co., Ridgefield, N. J.  
Western Electrochem. Co., Los Angeles 23, Calif.  
Jacques Wolfe & Co., 350 Lexington Ave., Passaic, N. J.

## SODIUM CHLORIDE (see Salt, Common Salt)

## SODIUM CHLORITE

Olin Mathieson Chem. Corp., Baltimore 3  
Berkshire Chemicals, Inc., 420 Lexington Ave., N. Y. 17

## SODIUM CITRATE (see listings under Acids, Citric, Gluconic, etc.)

## SODIUM CYANIDE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
Mallinckrodt Chemical Wks., St. Louis 7  
Merck & Co., Rahway, N. J.  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh 19  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. C.  
Jos. Turner & Co., Ridgefield, N. J.

## SODIUM FLUORIDE (see Fluorides)

## SODIUM FLUOSILICATE (see Sodium Silicofluoride)

## SODIUM GLUCONATE (see listings under Acids, Citric, Gluconic, etc.)

## SODIUM HYDROSULFITE

Antara Chemicals, Div. General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Mallinckrodt Chemical Wks., St. Louis 7  
Merck & Co., Rahway, N. J.  
Rohm & Haas Co., Inc., 222 W. Washington Sq., Phila.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. C.  
Royce Chemical Co., Carlton Hill, N. J.  
Jos. Turner & Co., Ridgefield, N. J.  
Virginia Smelting Co., W. Norfolk, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

## SODIUM HYPOCHLORITE (see Laundry Bleach)

## SODIUM HYPOSULFITE (Thiosulfate)

E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.

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**Metso 99**  
Sodium Sesquisilicate ( $1.5\text{Na}_2\text{O}:\text{SiO}_2:5\text{H}_2\text{O}$ )

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Sodium Metasilicate Anhydrous ( $\text{Na}_2\text{O}:\text{SiO}_2$ )

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## SODIUM HYPOSULFITE (Contd.)

Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
A. R. Maas Chem. Co., Div. of Victor Chem. Wks., 4570  
Ardine St., South Gate, Calif.  
Mallinckrodt Chem. Wks., St. Louis  
Merck & Co., Rahway, N. J.  
Rohm & Haas, 222 W. Washington Sq., Phila.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
Virginia Smelting Co., W. Norfolk, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14

## SODIUM LAURYL SULFATE (see Sulfated Fatty Alcohols)

## SODIUM METAPHOSPHATE

Blockson Chem. Co., Joliet, Ill.  
Mechling Bros. Chemical Co., Camden, N. J.  
Monsanto Chem. Co., St. Louis 4  
Rumford Chemical Wks., 10 Newman Ave., Providence, R. I.  
Shea Chem. Corp., 1201 St. Paul St., Baltimore  
Victor Chem. Wks., 155 N. Wacker Dr., Chicago 6  
Virginia-Carolina Chemical Corp., Richmond, Va.  
Welch Holme & Clark Co., 439 West St., N. Y.  
Westvaco Mineral Prods. Div., Food Machy. & Chem. Corp., 161 E. 42 St., N. Y. 17

## SODIUM METASILICATE (Anhydrous and Hydrated)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Cowles Chemical Co., 7016 Euclid Ave., Cleveland  
Diamond Alkali Co., Union Commerce Bldg., Cleve.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
Philadelphia Quartz Co., Public Ledger Bldg., Phila. 6  
Virginia-Carolina Chem. Corp., Richmond 5, Va.  
Welch, Holme & Clark Co., 439 West St., New York

## SODIUM ORTHOSILICATE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Cowles Chemical Co., 7016 Euclid Ave., Cleveland  
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14  
Dow Chemical Co., Midland, Mich.  
Pennsylvania Salt Mfg. Co., Widener Bldg., Phila.  
Philadelphia Quartz Co., Public Ledger Bldg., Phila. 6  
Welch, Holme & Clark Co., 439 West St., N. Y.

## SODIUM PERBORATE

(see also Dealers)

Berkshire Chemicals, Inc., 420 Lexington Ave., N. Y. 17  
Becco Chemical Div., River Rd. & Sawyer Ave., Tonawanda, N. Y.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
C. Lievense, Ltd., 11 Broadway, N. Y. 4  
Mallinckrodt Chem. Wks., 2nd & Mallinckrodt Sts., St. Louis 7  
Merck & Co., Rahway, N. J.

## SODIUM PHOSPHATES (see also Sodium Metaphosphate, Sodium Tripolyphosphate, Tetrasodium Pyrophosphate, Trisodium Phosphate, etc.)

Blockson Chemical Co., Joliet, Ill.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
A. R. Maas Chemical Co., Div. of Victor Chem. Wks., 4570 Ardine St., South Gate, Calif.  
Monsanto Chemical Co., St. Louis  
Rumford Chemical Wks., 19 Newman St., Rumford, R. I.

Shea Chemical Corp., 1201 St. Paul St., Baltimore  
Victor Chemical Wks., 155 N. Wacker Dr., Chicago 6  
Virginia-Carolina Chem. Corp., Richmond, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14  
Westvaco Mineral Prods. Div., Food Machinery & Chem. Corp., 161 E. 42nd St., N. Y. 17

## SODIUM PYROPHOSPHATE (see Tetrasodium Pyrophosphate)

## SODIUM SESQUICARBONATE

Amer. Cyanamid Co., 30 Rockefeller Plaza, N. Y. 20  
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14  
Olin Mathieson Chem. Corp., Baltimore 3  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. 10  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Virginia-Carolina Chemical Corp., Richmond, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Westvaco Mineral Prods. Div., Food Machy. & Chem. Corp., 161 E. 42nd St., N. Y. 17

## SODIUM SESQUISILICATE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Cowles Chemical Co., 7016 Euclid Ave., Cleveland  
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14  
Philadelphia Quartz Co., Public Ledger Bldg., Phila. 6  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. 10  
Jos. Turner & Co., Ridgefield, N. J.  
Virginia-Carolina Chem. Corp., Richmond 8, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

## SODIUM SILICATE

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Diamond Alkali Co., Union Commerce Bldg., Cleveland  
Davison Chemical Co., Baltimore  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Philadelphia Quartz Co., Public Ledger Bldg., Phila. 6  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. 10  
Virginia-Carolina Chem. Corp., Richmond 5, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.

## SODIUM SILICOFLUORIDE

American Fluoride Corp., 151 W. 19th St., N. Y.  
Armour Fertilizer Wks., Atlanta, Ga.  
Blockson Chemical Co., Joliet, Ill.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland  
Merck & Co., Rahway, N. J.  
Penn. Salt Mfg. Co., Widener Bldg., Phila.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y. 10  
Henry Sundheimer, Inc., 103 Park Ave., N. Y.  
Tennessee Corp., Atlanta, Ga.  
Jos. Turner & Co., Ridgefield, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y. 19

## SODIUM SULFATE (Glauber's Salt)

American Cyanamid Co., 30 Rockefeller Center, N. Y.  
American Potash & Chem. Corp., 122 E. 42nd St., N. Y.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
J. T. Baker Chem. Co., Phillipsburg, N. J.  
Blockson Chem. Co., Joliet, Ill.  
Harshaw Chem. Co., 1945 E. 97th St., Cleveland  
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.  
Monsanto Chem. Co., St. Louis 4  
Stauffer Chem. Co., 380 Madison Ave., N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
Penn Salt Mfg. Co., Widener Bldg., Phila.

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Potassium Tripolyphosphate  
Sodium Tripolyphosphate  
Tetrasodium Pyrophosphate  
Tetrapotassium Pyrophosphate  
Tripotassium Phosphate  
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\*Hexaphos is the trade-mark of FMC for its brand of Sodium Hexametaphosphate



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#### SODIUM SULFITE

E. I. du Pont de Nemours & Co., Wilmington  
General Chemical Div., Allied Chem. & Dye Corp.,  
40 Rector St., N. Y. 6  
Mallinckrodt Chemical Wks., St. Louis, Mo.  
A. R. Maas Chem. Co., Div. of Victor Chem. Wks., 4570  
Ardine St., South Gate, Calif.  
Prior Chemical Corp., 420 Lexington Ave., N. Y.  
Stauffer Chemical Co., 380 Madison Ave., N. Y.  
Victor Chemical Works, 155 N. Wacker Dr., Chicago

#### SODIUM TRIPOLYPHOSPHATE

Blockson Chemical Co., Joliet, Ill.  
E. I. du Pont de Nemours & Co., Wilmington  
General Chemical Div., Allied Chemical & Dye Corp.,  
40 Rector St., N. Y.  
A. R. Maas Chemical Co., Div. of Victor Chem. Wks.,  
4570 Ardine St., South Gate, Calif.  
Marchon Prods. Ltd., Whitehaven, Cumberland, England  
Monsanto Chem. Co., St. Louis 4  
Shea Chemical Corp., 1201 St. Paul St., Baltimore  
Victor Chemical Wks., 155 N. Wacker Dr., Chicago 6  
Virginia-Carolina Chem. Corp., Richmond 8, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y. 19  
Westvaco Mineral Prods. Div., Food Machy. & Chem.  
Corp., 161 E. 42nd St., N. Y. 17

#### SOFT SOAPS (see Potash Soaps)

#### SOIL FUMIGANTS

Dow Chemical Co., Midland, Mich.  
General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
Heyden Chemical Corp., 342 Madison Ave., N. Y. 17  
Jefferson Chemical Co., 260 Madison Ave., N. Y. 16  
Larvacide Products, Inc., 117 Liberty St., N. Y. 17  
Monsanto Chemical Co., St. Louis  
John Powell Div., 1 Park Ave., N. Y. 16  
Shell Chemical Corp., 50 W. 50 St., N. Y.

#### SOLUBLE OILS (see Sulfonated Oils)

#### SOLVENT, NAPHTHA

Amsco Solvents & Chemicals Co., 4619 Reading Road,  
Cincinnati 29, Ohio  
Anderson-Prichard Oil Corp., Oklahoma City, Okla.  
Atlantic Refining Co., 260 S. Broad St., Phila.  
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St.,  
N. Y.  
S. H. Bell Co., 1407 Gulf Bldg., Pittsburgh  
Buffalo Solvents & Chemicals Corp., Box 73, Station B,  
Buffalo 7, N. Y.  
Central Solvents & Chemicals Co., 2540 W. Flounoy St.,  
Chicago 12  
Commerce Petroleum Co., 2980 Archer Ave., Chicago  
DeMert & Dougherty, Inc., 3001 W. 47th St., Chicago 32  
Dixie Solvents & Chems. Co., Dixie Highway & Apple-  
ton Lane, Louisville, Ky.  
Gulf Oil Corp., Pittsburgh 30  
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave.,  
Indianapolis 22, Ind.  
Koppers Co., Chamber of Commerce Bldg, Pittsburgh  
Missouri Solvents & Chemicals Co., 419 De Soto Ave.,  
St. Louis 7, Mo.  
Neville Chemical Co., Pittsburgh  
Ohio Solvents & Chems. Co., 3470 W. 140 St., Cleveland  
Pennsylvania Industries Chem. Corp., Clairton, Pa.  
Pennsylvania Refining Co., Butler, Pa.  
Reilly Tar & Chemical Corp., Indianapolis  
Skelly Oil Co., 605 W. 47th St., Kansas City, Mo.  
Sinclair Refining Co., East Chicago, Ind.  
Southern Solvents & Chemicals Corp., 1352 Jefferson  
Highway, New Orleans 18, La.  
Standard Oil Co. (Calif.), 225 Bush St., San Francisco  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Tar Residuals, Inc., 420 Lexington Ave., N. Y.  
Texas Solvents & Chemicals Co., 8501 Market St.,  
Houston 15, Texas



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## SOLVENT, NAPHTHA (Contd.)

Velsicol Corp., 330 E. Grand Ave., Chicago  
Western Solvents & Chemicals Co., 6472 Selkirk Ave.,  
Detroit 11, Michigan  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St.,  
Milwaukee 14, Wis.  
Wolverine Solvents & Chemicals Co., 1500 Century Ave.,  
S.W., Grand Rapids 9, Mich.

## SOLVENTS, CHLORINATED (see also alcohols, coal tar derivatives, etc.)

Amsco Solvents & Chemicals Co., 4619 Reading Road,  
Cincinnati 29, Ohio  
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St.,  
N. Y.  
Buffalo Solvents & Chemicals Corp., Box 73, Station B,  
Buffalo 7, N. Y.  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
Central Solvents & Chemicals Co., 2540 W. Flournoy  
St., Chicago 12, Ill.  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
Crosby Chemicals, Inc., Picayune, Miss.  
Diamond Alkali Co., 300 Union Commerce Bldg. Cleve. 14  
Dixie Solvents & Chems. Co., Dixie Highway at Apple-  
ton Lane, Louisville, Ky.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Enjay Co., 15 W. 51st St., N. Y.  
Fine Organics, Inc., 211 E. 19th St., N. Y.  
Hercules Powder Co., 961 Market St., Wilmington  
(Terpene)  
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara  
Falls, N. Y.  
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave.,  
Indianapolis 22, Ind.  
Jefferson Chemical Co., 260 Madison Ave., N. Y. 16  
Koppers Co., Chamber Commerce Bldg., Pittsburgh  
Missouri Solvents & Chemicals Co., 419 De Soto Ave.,  
St. Louis 7, Mo.  
Monsanto Chemical Co., 1700 2nd St., St. Louis  
Neville Chemical Co., Pittsburgh  
Newport Industries, 230 Park Ave., N. Y.  
Ohio Solvents & Chemicals Co., 3470 W. 140th St.,  
Cleveland 11, Ohio  
Olin Mathieson Chem. Corp., Baltimore 3  
Penna. Industrial Chem. Corp., Clairton, Pa.  
Pennsylvania Refining Co., Butler, Pa.  
Reilly Tar & Chemical Corp., Indianapolis  
Sharples Chemicals, Inc., Widener Bldg., Phila.  
Shell Chemical Corp., 50 W. 50th St., N. Y. 18  
Skelly Oil Co., Kansas City, Mo.  
Solvay Process Div., Allied Chem. & Dye Corp., 61  
Broadway, N. Y.  
Southern Solvents & Chemicals Corp., 1352 Jefferson  
Highway, New Orleans 18, La.  
Tennessee Eastman Co., Kingsport, Tenn.  
Texas Solvents & Chemicals Co., 8501 Market St.,  
Houston 15, Texas  
U. S. Industrial Chemicals, Inc., 120 Broadway, N. Y. 5  
Velsicol Corp., 330 E. Grand Ave., Chicago  
Virginia Smelting Co., W. Norfolk, Va.  
Western Solvents & Chemicals Co., 6472 Selkirk Ave.,  
Detroit 11, Michigan  
Westvaco Chlor-Alkali Div., Food Machy. & Chem.  
Corp., 161 E. 42nd St., N. Y.  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St.,  
Milwaukee 14, Wis.  
Wolverine Solvents & Chemicals Co., 1500 Century Ave.,  
S.W., Grand Rapids 9, Mich.  
Wyandotte Chemicals Corp., Michigan Alkali Div.,  
Wyandotte, Mich.

## SOLVENTS, OXYGENATED

Buffalo Solvents & Chem. Corp., P. O. # 73, Sta. B,  
Buffalo  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
Central Solvents & Chems. Co., 2540 W. Flournoy St.,  
Chicago  
Dow Chemical Co., Midland, Mich.  
Enjay Co., 15 W. 51st St., N. Y. 19  
Jefferson Chemical Co., 260 Madison Ave., N. Y. 16  
Hoosier Solvents & Chem. Corp., 1650 Luett St., Indian-  
apolis  
Texas Solvents & Chems. Co., 8501 Market St., Houston

## SOLVENTS, PETROLEUM

American Mineral Spirits Co., 155 E. 44th St., N. Y.  
Amsco Solvents & Chemicals Co., 4619 Reading Road,  
Cincinnati 29, Ohio  
Anderson-Prichard Oil Co., Oklahoma City, Okla.  
Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Buffalo Solvents & Chemicals Corp., Box 73, Station B,  
Buffalo 7, N. Y.  
Central Solvents & Chemicals Co., 2540 W. Flournoy St.,  
Chicago 12  
Chemical Solvents Co., 2500 Summit, Kan. City, Mo.  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
Dixie Solvents & Chems. Co., Dixie Highway at Apple-  
ton Lane, Louisville, Ky.  
Gulf Oil Corp., Pittsburgh 30  
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave.,  
Indianapolis 22, Ind.  
Missouri Solvents & Chemicals Co., 419 De Soto Ave.,  
St. Louis 7, Mo.  
Neville Chemical Co., Pittsburgh 25  
Ohio Solvents & Chemicals Co., 3470 W. 140th St.,  
Cleveland 11, Ohio  
Penna. Industrial Chem. Corp., Clairton, Pa.  
Pennsylvania Refining Co., Butler, Pa.  
Phillips Petroleum Co., Chemical Prods. Dept.,  
Bartlesville, Okla.  
Shell Oil Co., 50 W. 50th St., N. Y.  
Sinclair Refining Co., 630 5th Ave., N. Y.  
Skelly Oil Corp., 605 W. 47th St., Kansas City, Mo.  
L. Sonneborn Sons, 300—4th Ave., N. Y. 10  
Southern Solvents & Chemicals Corp., 1352 Jefferson  
Highway, New Orleans 18, La.  
Standard Oil Co. (Calif.), 225 Bush St., San Francisco  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Standard Oil Co. (Ohio), Midland Bldg., Cleveland  
Texas Solvents & Chemicals Co., 8501 Market St.,  
Houston 15, Texas  
Velsicol Corp., 330 Grand Ave., Chicago  
Western Solvents & Chemicals Co., 6472 Selkirk Ave.,  
Detroit 11, Michigan  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St.,  
Milwaukee 14, Wis.  
Wolverine Solvents & Chemicals Co., 1500 Century Ave.,  
S.W., Grand Rapids 9, Mich.

## SOYA BEAN OIL

(see also Brokers and Dealers)

Archer-Daniels-Midland Co., Minneapolis 2  
Balfour, Guthrie Co., 67 Wall St., N. Y.  
Irving R. Boody & Co., 120 Wall St., N. Y.  
Eastern Industries, Inc., Ridgefield, N. J.  
General Mills, 400 2nd Ave. S., Minneapolis 1  
William O. Goodrich Co., Milwaukee, Wis.  
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave.,  
N. Y. 17  
Spencer Kellogg & Son, 98 Delaware Ave., Buffalo, N.Y.  
Pacific Vegetable Oil Co., 3125 E. 26 St., Los Angeles 23  
Purina Mills, St. Louis  
Robinson Wagner Co., 110 E. 42nd St., N. Y.  
A. E. Staley Mfg. Co., Decatur, Ill.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
G. S. Ziegler & Co., 99 Church St., N. Y. 7

## SOYA BEAN FATTY ACIDS

Archer-Daniels-Midland Co., Roanoke Bldg.,  
Minneapolis, Minn.  
Armour & Co., 1355 W. 31st St., Chicago  
Capital City Prods. Co., P. O. Box 569, Columbus, O.  
T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
E. F. Drew & Co., 16 E. 26th St., N. Y. 10  
Emery Industries, 4300 Carew Tower, Cincinnati 2  
General Mills, 400 2nd Ave., South, Minneapolis 1  
A. Gross & Co., 295 Madison Ave., N. Y. 17  
Harchem Div., Wallace & Tiernan, Inc., Box 178,  
Newark, N. J.  
Lever Bros. Co., 390 Park Ave., N. Y.  
Procter & Gamble Dist. Co., Cincinnati 1  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 429 W. 29th St., N. Y. 11  
Woburn Chemical Corp., Harrison, N. J.  
G. S. Ziegler & Co., 99 Church St., N. Y. 7



**SPERMACETI (see Whale Oil)**

**SPONGES (Natural, Metal, Synthetic)**

American Sponge & Chamois Co., 47 Ann St., N. Y.  
American Standard Mfg. Co., 2509 S. Green St., Chicago  
Atlas Sponge Co., 2520 S. Damen Ave., Chicago 8  
E. I. du Pont de Nemours & Co., Wilmington  
Evans-Crowder Co., 4445 Cass Ave., Detroit 1  
Florida Sponge & Chamois Co., 42 Cliff St., N. Y.  
Kleenette Mfg. Co., 1160 N. Howe St., Chicago  
Kurly Kate Corp., 2215 S. Michigan Ave., Chicago 16  
James H. Rhodes & Co., 157 W. Hubbard St., Chicago  
Robinson Sponge Co., 1805 Atlantic Ave., Brooklyn  
Schroeder & Tremayne, Inc., 1711 Delmar Blvd., St. Louis 3

**SPOTTING FLUIDS (see Cleaning Fluids)**

**SPOUTS (see Can Spouts, Closures)**

**SPRAYER NOZZLES (see Nozzles)**

**SPRAYERS and ATOMIZERS**

Arnold-Copeland Co., 22 Elkins St., So. Boston, Mass.  
Calmar Co., 6800 McKinley Ave., Los Angeles, Calif.  
R. E. Chapin Mfg. Wks., Batavia, N. Y.  
Federal Tool Corp., 3600 S. Pratt Blvd., Chicago 45  
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago 11  
D. B. Smith & Co., 414 Main St., Utica, N. Y.  
Wilco Co., 4425 Bandinni Blvd., Los Angeles 23  
Z & W Mach. Prods., Inc., 5100 St. Clair Ave., Cleveland

**SPRAYERS, COMPRESSED AIR**

Acmeline Mfg. Co., Traverse City, Mich.  
Binks Mfg. Co., 3114 Carroll Ave., Chicago  
Champion Sprayer Co., 6523 Heintz Ave., Detroit 11

R. E. Chapin Mfg. Co., Batavia, N. Y.  
DeVilbiss Co., Toledo, O.  
Dobbins Div.—Chamberlain Corp., Waterloo, Iowa  
Fumeral Co., Racine, Wis. (built in systems)  
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago  
Imperial Brass Co., 1237 W. Harrison St., Chicago  
Lofstrand Co., Rockville, Md.  
Lowell Mfg. Co., 589 E. Illinois St., Chicago  
Root-Lowell Corp., 445 N. Lake Shore Dr., Chicago  
D. B. Smith & Co., 414 Main St., Utica, N. Y.  
Spraying Systems Co., 3266 Randolph St., Bellwood, Ill.  
Universal Metal Prods. Co., Lowell, Mich.

**SPRAYERS, ELECTRIC**

Acmeline Mfg. Co., Traverse City, Mich.  
Binks Mfg. Co., 3114 Carroll Ave., Chicago  
Breuer Elect. Mfg. Co., 5100 N. Ravenswood Ave., Chicago 40  
DuLa Mfg. Co., 351 Atlantic Ave., Brooklyn, N. Y.  
Fumeral Co., Racine, Wis.  
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago  
Lowell Mfg. Co., 589 E. Illinois St., Chicago  
Root-Lowell Corp., 445 N. Lake Shore Dr., Chicago  
Silver Creek Precision Corp., Silver Creek, N. Y.  
James Varley & Sons, 1200 Switzer Ave., St. Louis 15  
Z & W Mach. Prods., 5151 St. Clair Ave., Cleveland 14

**SPRAYERS, STEAM**

DuLa Mfg. Co., 351 Atlantic Ave., Brooklyn  
Fumeral Co., Racine, Wis.  
Hydro-Mist Div., Arnold Laboratories, 1515 W. Glenoaks Blvd., Glendale, Calif.  
Lowell Mfg. Co., North Pier Terminal, Chicago  
Madewell Products, Inc., 3125 E. 7th St., Oakland, Calif.  
Root-Lowell Corp., 445 N. Lake Shore Dr., Chicago  
Spray, Inc., 218 N. 15th St., East Orange, N. J.

**SPRAYERS (for Fogging)**

Buffalo Turbine Agr. Equip. Co., Gowanda, N. Y.  
Curtis Automotive Devices, Bedford, Ind.



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Cleveland 3, Ohio

H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago  
 Todd Shipyards Corp., 81-16 45th Ave., Elmhurst, N. Y.  
 Silver Creek Precision Corp., Silver Creek, N. Y.

#### SPRAYERS, HAND

Acemline Mfg. Co., Traverse City, Mich.  
 R. E. Chapin Mfg. Co., Batavia, N. Y.  
 Dobbins Div.—Chamberlain Corp., Waterloo, Iowa  
 H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago  
 Jaekh Mfg. Co., Cincinnati  
 Lofstrand Co., Rockville, Md.  
 Lowell Mfg. Co., 589 E. Illinois St., Chicago  
 Root-Lowell Corp., 445 N. Lake Shore Dr., Chicago  
 D. B. Smith & Co., 414 Main St., Utica, N. Y.  
 Standard Container, Inc., Rockaway, N. J.  
 Universal Metal Prods. Co., Lowell, Mich.  
 Volume Sprayer Mfg. Co., Tulsa, Okla.  
 Z & W Mach. Prods., 5151 St. Clair Ave., Cleveland 14

#### SPRAYERS, POWER (Heavy Duty)

John Bran Mfg. Co., Div. Food Mach. Co., Lansing, Mich.  
 Besler Corp., 4053 Harlan St., Emeryville, Calif.  
 Buffalo Turbine Agr. Equip. Co., Gowanda, N. Y.  
 R. E. Chapin Mfg. Wks., Batavia, N. Y.  
 Dobbins Div.—Chamberlain Corp., Waterloo, Iowa  
 A. B. Farquhar Co., 142 N. Duke St., York, Pa.  
 H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago  
 Hardie Mfg. Co., Hudson, Mich.  
 Hurst Industries, Inc., 1849 S. 1st St., San Jose, Calif.  
 F. E. Myers & Brothers Co., Ashland, O.  
 Silver Creek Precision Co., Silver Creek, N. Y.  
 D. B. Smith & Co., 414 Main St., Utica, N. Y.  
 Victor Products Corp., Ranson, W. Va.

#### SPRAY TOWERS (see Soap Spray Towers)

#### SPRAY SYSTEMS, PERMANENT INSTALLATIONS

Fumeral Co., Racine, Wis.  
 H. D. Hudson Mfg. Co., 549 E. Illinois St., Chicago 11

Virginia Smelting Co., West Norfolk, Va.  
 Z & W Mach. Prods., 5151 St. Clair Ave., Cleveland 14

#### SPREADERS for INSECTICIDE (see Agricultural Insecticide Spreaders, Clays, Emulsifiers, etc.)

#### SQUEEGEES

Ardmore Mfg. Co., 5082 N. Lincoln Ave., Chicago  
 Warren Haviland Corp., 1810 Chouteau Ave., St. Louis 3  
 Illinois Duster & Brush Co., 1944 Webster Ave., Chicago  
 W. E. Kautenberg Co., P. O. Box 90, Freeport, Ill.  
 Morse-Starrett Products Co., 1204 49th Ave., Oakland, Calif.  
 Steccone Products Co., 826 71st Ave., Oakland 21, Calif.  
 White Mop Wringer Co., Fultonville, N. Y.

#### SQUILLS (Rodent Poison)

A-M-R Chemical Co., 985 E. 35th St., Bklyn. 10  
 Heckathorn & Co., 641 S. Fourth St., Richmond, Calif.  
 McLaughlin, Gormley, King Co., 1715 5th St., S.E., Minneapolis, Minn.  
 S. B. Penick & Co., 50 Church St., N. Y.  
 Prentiss Drug & Chem. Co., 110 William St., N. Y.  
 Uncle Sam Chem. Co., 575 W. 131st St., N. Y. 27

#### STAINLESS STEEL CLAD EQUIPMENT (see Clad Equipment)

#### STAINLESS STEEL TANKS (see Tanks)

#### STAIN REMOVERS

Ampion Corp., 4-88 47 Ave., Long Island City, N. Y.  
 Davies-Young Soap Co., Dayton, O.  
 E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 Golden Star Polish Mfg. Co., 2901 E. 13th St., Kansas City, Mo.

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Hysan Products Co., 932 W. 38th Place, Chicago  
Penna. Salt Mfg. Co., Widener Bldg., Phila.  
M. D. Stetson Co., 64 E. Brookline St., Boston  
Trio Chem. Wks., 341 Scholes St., Brooklyn  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
Zeen Chem. Co., 2000 Elm St., NW, Cleveland

## STANNOUS CHLORIDE (see Tin Crystals)

## STARCH (see Corn Starch)

## STEARATES (Zinc, Calcium, Magnesium, etc.)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Antara Chemicals, Div. General Aniline & Film Corp.,  
435 Hudson St., N. Y.  
Archer-Daniels-Midland Co., Minneapolis, Minn.  
Atlas Powder Co., Wilmington, Del.  
Capital City Prods. Co., P. O. Box 569, Columbus, O.  
Central Solvents & Chems. Co., 2540 W. Flournoy St.,  
Chicago  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Glyco Prods. Co., 350 5th Ave., N. Y.  
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland  
Kessler Chem. Co., State Rd., Phila. 35 (Glyceryl,  
Glycol)  
Mallinckrodt Chem. Wks., St. Louis  
Merck & Co., Rahway, N. J.  
Metasap Chem. Co., First & Essex Sts., Harrison, N. J.  
Norco Prods. Co., E. Ontario & Bath Sts., Phila.  
M. W. Parsons, Inc., 59 Beekman St., N. Y.  
Rosenthal Berrow Co., 23 E. 26th St., N. Y. 10  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Jos. Turner & Co., Ridgefield, N. J.  
Warwick Chemical Co., 10-10 44th Ave., L. I. C. 1, N. Y.  
Whittaker, Clark & Daniels, 260 W. Bway., N. Y.  
Wisconsin Solvents & Chems. Corp., 1719 S. 83 St.,  
Milwaukee  
Witco Chemical Co., 122 E. 42 St., N. Y.

## STEARIC ACID

Acme-Hardesty Co., 60 E. 42nd St., N. Y. C.  
American Cyanamid Co., 30 Rockefeller Plaza, N. Y. 20  
Archer-Daniels-Midland Co., Minneapolis 2  
Armour Chemical Division, 1355 W. 31st St., Chicago  
Buffalo Solvents & Chem. Corp., P. O. No. 73, Sta. B,  
Buffalo  
Capitol City Prods. Co., 525 W. 1st St., Columbus, O.  
Celina Stearic Acid Co., Celina, Ohio  
Concord Chem. Co., Moorestown, N. J.  
Darling & Co., 4201 S. Ashland Ave., Chicago  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Eastern Industries, Inc., Ridgefield, N. J.  
Emery Industries, Inc., 4300 Carew Tower, Cincinnati  
Fine Organics, Inc., 211 E. 19th St., N. Y.  
General Mills, 400 2nd Ave. S., Minneapolis 1  
Griffin Chem. Co., 1000 16th St., San Francisco  
A. Gross & Co., 295 Madison Ave., N. Y.  
Harchem Div., Wallace & Tiernan, Inc., Box 178,  
Newark, N. J.  
Orbis Products Corp., 601 W. 26th St., N. Y.  
Procter & Gamble Dist. Co., Cincinnati  
Rosenthal Berrow Co., 23 E. 26th St., N. Y. 10  
F. W. Steadman Co., 59 Pearl Ct., N. Y. 4  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Trendex Div., The Humko Co., P. O. Box 4607, Memphis,  
Tenn.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.  
Will & Baumer Candle Co., Syracuse, N. Y.  
Wilson-Martin Div., Snyder Ave. & Swanson St., Phila.  
Witco Chemical Co., 122 E. 42 St., N. Y.  
Wolverine Solvents & Chems. Co., 1500 Century Ave.,  
SW, Grand Rapids, Mich.  
Woburn Chemical Corp., Harrison, N. J.  
G. S. Ziegler & Co., 99 Church St., N. Y. 7

## STEARINE

Allied Asphalt & Mineral Corp., 217 Broadway, N. Y.  
Archer-Daniels-Midland Co., Minneapolis 2  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Eastern Industries, Inc., Ridgefield, N. J.  
Emery Industries, Inc., 4300 Carew Tower, Cincinnati  
A. Gross & Co., 295 Madison Ave., N. Y. 17  
Independent Mfg. Co., Bridesburg P. O., Phila.  
Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Angeles  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Wilson & Co., 4100 Ashland Ave., Chicago  
Zophar Mills, Inc., 112 26th St., Brooklyn, N. Y.

## STEARYL ALCOHOL (see Fatty Alcohols)

## STEEL DRUMS (see Drums, Steel)

## STEEL DRYING ROLLS (see Chilling Rolls)

## STEEL PAILS (see Pails)

## STEEL TANKS (see Tanks, Steel)

## STEEL, WOOL

American Steel Wool Mfg. Co., 41-24 Orchard St.,  
L. I. City, N. Y.  
Brillo Co., 60 John St., Bklyn. 1  
Durawool, Inc., 95-59 222 St., Queens Village, N. Y.  
International Steel Wool Co., Springfield, Ohio  
James H. Rhodes & Co., 157 W. Hubbard St., Chicago  
Williams Co., London, Ohio

## STOCK SPRAYS and DIPS (see Cattle Dips and Sprays)

## STRAINERS, for use with spray nozzles (see Nozzles)

## SUDSING EQUIPMENT (see Soap Solutionizing De- vices)

## SULFATED and SULFONATED FATTY ALCOHOLS (and other Non-Soap Organic Detergent Basic mate- rials. (See also Detergents, Synthetic)

Aceto Chem. Co., 40-40 Lawrence Ave., Flushing, N. Y.  
American Alcolac Corp., 3440 Fairfield Rd., Balto.  
Archer-Daniels-Midland Co., Minneapolis 2  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
Colgate-Palmolive Co., 105 Hudson St., N. Y.  
E. I. du Pont de Nemours Co., Wilmington, Del.  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Geigy Industrial Chems., 89 Barclay St., N. Y. 8  
N. I. Malmstrom & Co., 147 Lombardy St., Brooklyn  
Marchon Prods. Ltd., Whitehaven, Cumberland, England  
Maywood Chemical Works, Maywood, N. J.  
M. Michel & Co., 90 Broad St., N. Y.  
Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.  
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
National Aniline Div., Allied Chem. & Dye Corp.,  
40 Rector St., N. Y.  
Onyx Oil & Chemical Co., Warren & Moris Sts.,  
Nopco Chemical Co., First & Essex Sts., Harrison, N. J.  
Jersey City 2  
Procter & Gamble Co., Cincinnati  
Robinson Wagner Co., 110 E. 42nd St., N. Y.  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
Sandoz Chemical Works, 61 Van Dam St., N. Y.  
Stepan Chem. Co., 20 N. Wacker Drive, Chicago  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Warwick Chemical Co., 10 St. & 44th Ave., Long Island  
City, N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y. 19  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

## SULFONATED OILS

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Antara Chemicals, Div., General Aniline & Film Corp.,  
435 Hudson St., N. Y. 14  
Archer-Daniels-Midland Co., Minneapolis 2  
Atlantic Refining Co., 260 S. Broad St., Phila.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Eastern Industries, Inc., Ridgefield, N. J.  
Emery Industries, 4300 Carew Tower, Cincinnati  
Finetex, Inc., P. O. Box 414, Pompton Plains, N. J.



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Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
Norco Prods. Co., E. Ontario & Bath Sts., Phila.  
Onyx Oil & Chem. Co., Warren & Morris Sts.,  
Jersey City 2  
Salem Oil & Grease Co., Salem, Mass.  
Sandoz Chemical Works, 61 Van Dam St., N. Y.  
Shell Chemical Corp., 50 W. 50 St., N. Y. 20  
L. Sonneborn Sons, 300—4th Ave., N. Y. 10  
Stepan Chem. Co., 20 N. Wacker Drive, Chicago  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Warwick Chemical Co., 10 St. & 44th Ave., Long Island  
City, N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

#### SULFOXYLATES (Soap Bleaches)

Antara Chemicals, Div., General Aniline & Film Corp.,  
435 Hudson St., N. Y.  
Rohm & Haas Co., Inc., 222 W. Washington Sq., Phila.  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

#### SUPERFATTING AGENTS (see also Lanolin, Petrolatum)

E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Emery Industries, Inc., 4300 Carew Tower, Cincinnati  
Kessler Chem. Co., State Rd. & Cottman Ave., Phila.  
M. Michel & Co., 90 Broad St., N. Y.  
Stepan Chem. Co., 20 N. Wacker Dr., Chicago  
L. Sonneborn Sons, 300 4th Ave., N. Y.

#### SUPERHEATERS

Ernest Scott & Co., Fall River, Mass.  
The Superheater Co., 60 E. 42nd St., N. Y.

#### SURFACE ACTIVE AGENTS (see Wetting Agents)

#### SURGICAL SOAPS (see Potash Soaps)

#### SWEEPING COMPOUNDS

American Soap & Washoline Co., Cohoes, N. Y.  
Badger Plug Co., Appleton, Wis.  
Banner Chemical Prod. Corp., 9 Calumet St., Newark  
5, N. J.  
Baums Castorine Co., 200 Matthews St., Rome, N. Y.  
Capitol Soap Corp., Colfax Ave., Clifton, N. J.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St.,  
Chicago  
Creco Co., Inc., Creco Bldg., Long Island City, N. Y.  
Eagle Soap Corp., Huntington, Ind.  
Fitch Dustdown Co., 801 S. Howard St., Baltimore  
Fuld Bros. 702 S. Wolfe St., Baltimore  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Products Co., 932 W. 38th Place, Chicago  
Klix Chem. Co., 2460 Third St., San Francisco  
Frank Miller & Sons, 2250 W. 58th St., Chicago  
National Sanitary Prods., 3944 Olive St., St. Louis 8  
Nat'l. Sawdust Co., 69 N. 6th St., Bklyn.  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
North Coast Soap & Chem. Wks., Seattle, Wash.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Port Huron Detergent Co., Port Huron, Mich.  
Puritan Chem. Co., 916 Ashby St., N.W., Atlanta  
Riverside Chem. Co., N. Tonawanda, N. Y.  
Sanco Prods. Inc., Greenville, O.  
S. & S. Soap Co., 815 E. 135 St., N. Y. 54  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
Savin Products Co., 1221 Dorchester Ave., Boston 25  
E. B. Snyder Co., 4450 Leiper St., Phila. 24  
Sweeping Compound Mfrs. Co., 421 Broome St., N. Y.  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.

#### SYNTHETIC DETERGENTS (see Detergents, Synthetic)

#### TABLET MANUFACTURE (for the trade)

Academy Mfg. Drug Corp., 544 E. 171 St. N. Y. 57  
Arner Co., Buffalo 3, N. Y.  
Frontier Chem. Products, Inc., 119 E. Soper St.,  
St. Louis 11  
Strong, Cobb & Co., Cleveland 4, Ohio

#### TALC

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Binney & Smith Co., 41 E. 42nd St., N. Y.  
Blue Ridge Talc Co., Henry, Va.

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 Eastern Magnesia Talc Co., Burlington, Vt.  
 Fezandie & Sperrle, 205 Fulton St., N. Y.  
 Georgia Talc Co., Asheville, N. C.  
 Los Angeles Talc Co., Los Angeles, Cal.  
 Natura Minerals Co., 108 W. 6th St., Los Angeles  
 Orbis Products Corp., 601 W. 26th St., N. Y.  
 Pacific Coast Talc Co., Los Angeles, Cal.  
 James H. Rhodes & Co., 157 W. Hubbard St., Chicago  
 Rosenthal Berrow Co., 23 E. 26th St., N. Y. 10  
 L. A. Salomon & Bro., 216 Pearl St., N. Y.  
 Tamms Industries, Inc., 228 N. LaSalle St., Chicago  
 R. T. Vanderbilt Co., 230 Park Ave., N. Y.  
 Welch, Holme & Clark Co., Inc., 439 West St., N. Y.  
 Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.  
 Witco Chemical Co., 122 E. 42 St., N. Y.  
 Wyodak Chemical Co., 4600 E. 71st St., Cleveland

## TALL OIL (Crude and Refined)

Albemarle Paper Mfg. Co., Richmond 17, Va.  
 Amso Solvents & Chems. Co., 4619 Reading Rd., Cincinnati  
 Archer-Daniels-Midland Co., Minneapolis 2  
 Arizona Chemical Co., 30 Rockefeller Plaza, New York  
 Brunswick Pulp & Paper Co., Brunswick, Ga.  
 Buffalo Solvents & Chem. Corp., P. O. No. 73, Sta. B, Buffalo  
 Camp Manufacturing Co., Franklin, Va.  
 Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago  
 Champion Paper & Fibre Co., Canton, N. C.  
 Concord Chemical Co., Moorestown, N. J.  
 Continental Can Co., Hummel-Ross Division, Hopewell, Va.  
 Crosby Chemicals, Inc., Picayune, Miss.  
 Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
 Crossett Chemical Co., Crossett, Ark.  
 E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
 General Mills, 400 2nd Ave. S., Minneapolis  
 Gulf States Paper Co., Tuscaloosa, Ala.  
 Hoosier Solvents & Chems. Corp., 1650 Luett St., Indianapolis  
 Missouri Solvents & Chems. Co., 419 DeSoto St., St. Louis  
 National Southern Products Corp., Tuscaloosa, Ala.  
 Newport Industries, Inc., 230 Park Avenue, New York  
 North Carolina Pulp Co., Camden, N. J.  
 Ohio Solvents & Chems. Co., 3470 W. 140 St., Cleveland  
 Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Angeles 23  
 Texas Solvents & Chem. Co., 8501 Market St., Houston  
 Union Bag & Paper Corp., 233 Broadway, New York  
 Welch, Holme & Clark Co., 439 West St., N. Y. 14  
 West Virginia Pulp & Paper Co., 230 Park Ave., New York  
 Wisconsin Solvents & Chems. Corp., 1719 S. 83 St., Milwaukee  
 Wolverine Solvents & Chems. Co., 1500 Century Ave., Grand Rapids, Mich.

## TALL OIL FATTY ACIDS

Amso Solvents & Chems. Co., 4619 Reading Rd., Cincinnati  
 Central Solvents & Chems. Co., 2540 Flournoy St., Chicago  
 Arizona Chemical Co., 30 Rockefeller Plaza, N. Y.  
 Armour Chemical Division, 1355 W. 31st St., Chicago  
 T. G. Cooper Co., Cedar & Vennig Sts., Phila.  
 Darling & Co., 4201 S. Ashland Ave., Chicago 9  
 Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
 E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
 National Southern Products Corp., Tuscaloosa, Ala.  
 Newport Industries, Inc., 230 Park Ave., N. Y. 17  
 Texas Solvents & Chem. Co., 8501 Market St., Houston  
 Union Bag & Paper Corp., 233 Broadway, N. Y. 4  
 Welch, Holme & Clark Co., 439 West St., N. Y.  
 West Virginia Pulp & Paper Co., 230 Park Ave., N. Y. 17  
 G. S. Ziegler & Co., 99 Church St., N. Y. 7

## TALLOW AND GREASE

(see also Brokers and Dealers)

Armour & Co., 1355 W. 31st St., Chicago  
 Belleville Rendering Co., Belleville, Ill.  
 Consolidated Rendering Co., 178 Atlantic Ave., Boston

T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
 Cudahy Packing Co., 221 N. LaSalle St., Chicago  
 Darling & Co., 4201 S. Ashland Ave., Chicago  
 Eastern Industries, Inc., Ridgefield, N. J.  
 Independent Mfg. Co., Bridesburg P. O., Phila.  
 Long Island Soap Co., 27 Bridgewater St., Brooklyn  
 Louisville Butchers' Hide & Tallow Co., Louisville, Ky.  
 Newman Tallow & Soap Mach. Co., 1051 W. 35th, Chicago  
 Norco Prods. Co., E. Ontario & Bath Sts., Phila.  
 Swift & Co., Industrial Oil Dept., Hammond, Ind.  
 Theobald Industries, P. O. Box 72, Harrison, N. J.  
 Waltham Tallow Co., Waltham, Mass.  
 Welch, Holme & Clark Co., Inc., 439 West St., N. Y.  
 Wilson-Martin Div., Snyder Ave. & Swanson St., Phila.

## TALLOW CHIP SOAP (see Chip Soaps)

## TALLOW OIL

(see also Brokers and Dealers)

Armour & Co., 1355 W. 31st St., Chicago  
 Consolidated Rendering Co., 40 N. Market St., Boston  
 Cudahy Packing Co., 111 W. Monroe St., Chicago  
 Eastern Industries, Inc., Ridgefield, N. J.  
 Harchem Div., Wallace & Tiernan, Inc., Box 178, Newark, N. J.  
 Independent Mfg. Co., Bridesburg P. O., Phila.  
 Norco Prods. Co., E. Ontario & Bath Sts., Phila.  
 John T. Stanley Co., 642 W. 30th St., N. Y.  
 Swift & Co., Industrial Oil Dept., Hammond, Ind.  
 Theobald Industries, P. O. Box 72, Harrison, N. J.  
 Waltham Tallow Co., Waltham, Mass.  
 Welch, Holme & Clark Co., 439 West St., N. Y.  
 West Coast Fert. & Rendering Co., Los Angeles  
 Wilson & Co., Union Stock Yards, Chicago

## TANKS

Allied Steel & Equipment Co., Chester, N. J.  
 Alsop Engineering Corp., Milldale, Conn.  
 Consolidated Products Co., 59 Garden St., Hoboken, N. J.  
 (Used)  
 Edge Moor Iron Wks., Edge Moor, Del.  
 Ertel Eng. Corp., West Front St., Kingston, N. Y.  
 Filpaco Industries, 2464 S. Michigan Ave., Chicago  
 Littleford Bros., 453 E. Pearl St., Cincinnati  
 J. M. Lehmann Corp., 566 New York Ave., Lyndhurst, N. J.  
 Metal Glass Products Corp., Belding, Mich.  
 M.R.M. Co., 191 Berry St., Brooklyn  
 Newman Tallow & Soap Mach. Co., 1051 W. 35th, Chicago  
 Pfadler Co., 1000 West St., Rochester, N. Y.  
 Geo. G. Rodgers Co., 2401 Third Ave., N. Y.  
 Chas. Ross & Son., 148 Classon Ave., Brooklyn 5  
 Scientific Filter Co., 59 Rose St., N. Y.

## TANKS (Clad Steel)

Allied Steel & Equipment Co., Chester, Pa.  
 Alloy Prods. Corp., 221 Madison St., Waukesha, Wis.  
 Alsop Engineering Corp., Milldale, Conn.  
 Atlas Steel Construction Co., Irvington, N. Y.  
 Bennett Industries, Peotone, Ill.  
 S. Blickman, Inc., 72 Gregory Ave., Weehawken, N. J.  
 Builders Sheet Metal Works, 108 Wooster St., N. Y. 12  
 Carnegie-Illinois Steel Corp., 208 LaSalle St., Chicago  
 Conn & Co., Warren, Pa.  
 Consolidated Products Co., 59 Garden St., Hoboken, N. J.  
 (Used)  
 J. H. Day Co., 1144 Harrison Ave., Cincinnati  
 Edge Moor Iron Wks., Edge Moor, Del.  
 Filpaco Industries, 2464 S. Michigan Ave., Chicago  
 William Garrigue & Co., 9 S. Clinton St., Chicago  
 Graver Tank & Mfg. Corp., 332 S. Michigan, Chicago  
 Houchin Machinery Co., Hawthorne, N. J.  
 Industrial Process Engineers, 8 Lister Ave., Newark 5  
 N. J.  
 Lancaster Iron Works, 564 S. Prince St., Lancaster, Pa.  
 J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.  
 Littleford Bros., 453 E. Pearl St., Cincinnati  
 Lukens Steel Corp., Coatesville, Pa.  
 M.R.M. Co., 191 Berry St., Brooklyn  
 Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago (Used)  
 Patterson-Kelley Co., East Stroudsburg, Pa.  
 Petroleum Iron Works, Sharon, Pa.

# RAW MATERIALS

**WH&C**

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soap industry

## VEGETABLE OILS

Coconut	Cottonseed	Peanut	Linseed
Castor	Olive	Rapeseed	Rice Bran
Corn	Soya Bean	Sesame	Babassu
	Palm Kernel	Palm	Safflower

## ANIMAL OILS

Lard	Neatsfoot	Fish
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## ANIMAL FATS

Tallow	Grease	Oleo Stearine
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## MINERAL OILS

Petrolatum	White Mineral Oils
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## FATTY ACIDS

Vegetable Oil	Animal Oil	Fish Oil
Stearic Acid	Red Oil	White Olein
Cottonseed Oil	Soya Bean Oil	Tall Oil
Coconut Oil	Corn Oil	Palm Oil

## CHEMICALS . . .

Carbonate of Potash	Caustic Soda	Caustic Potash
Snow Flake Crystals	Modified Soda	Soda Ash
Sal Soda	Borax	Boric Acid
Tetrasodium Pyrophosphate	Trisodium Phosphate	
Disodium Phosphate	Metasilicate of Soda	
	Silicate of Soda	
Metasilicate Anhydrous	Orthosilicate of Soda	
Carbon Tetrachloride	*Metso-Detergents	

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Lecithin	Textile Sours	Sulfonated Oils
Lanolin	Foaming Agent	Detergents
Soap Colors	Bath Powders	Superfatting Agent
	Nacconol, all types	
Maypon 4C — Maypon K — surface active agents and detergents. They wet, emulsify, disperse. Non-toxic — stable in hard water.		
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Pioneer Tank & Boiler Co., Tulsa, Okla.  
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh  
Read Standard Corp., York, Pa.  
Geo. G. Rodgers Co., 2401 Third Ave., N. Y.  
Chas. Ross & Son., 148 Classon Ave., Brooklyn 5  
Sprout, Waldron & Co., Muncy, Pa.  
Struthers-Wells Corp., Warren, Pa.

#### TANKS (Wooden)

Atlantic Tank & Barrel Co., North Bergen, N. J.  
Conn & Co., Warren, Pa.  
General Tank Corp., 30 Church St., N. Y.  
Hauser-Stander Tank Co., Ivorydale, Penn.  
Kalamazoo Tank & Silo Co., Kalamazoo, Mich.  
J. M. Lehmann Co., 566 New York Ave., Lyndhurst,  
N. J. (Mixing)  
New England Tank & Tower Co., Everett, Mass.  
Pacific Tank & Pipe Co., 334 Market St., San Francisco  
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh  
Sprout, Waldron & Co., Muncy, Pa.  
Tippett & Wood, Phillipsburg, N. J.

#### TAR ACID OIL (see Coal Tar Raw Materials)

#### TAR ACIDS, High Boiling

American-British Chem. Supplies, Inc., 180 Madison  
Ave., N. Y.  
Baird & McGuire, Inc., Holbrook, Mass.  
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St.,  
N. Y.  
Coal Tar Chemicals Corp., 420 Lexington Ave., N. Y.  
Concord Chemical Co., Moorestown, N. J.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh,  
Pa.  
Merichem Co., 3201 Fannin St., Houston 4, Tex.  
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
Neville Chemical Co., Pittsburgh  
Reilly Tar & Chem. Co., Merchants Bank Bldg., Indi-  
anapolis

Tar Residuals, Inc., 420 Lexington Ave., N. Y. 17  
Shell Chemical Corp., 50 W. 50th St., N. Y.

#### TEASEED OIL

T. G. Cooper & Co., 2400 E. Venango St., Phila. 34  
Geo. Degen & Co., 111 Broadway, N. Y. 6  
Eastern Industries, Inc., Ridgefield, N. J.  
Pacific Vegetable Oil Corp., 3125 E. 26 St., Los  
Angeles  
E. M. Sergeant Chemical Co., 7 Dey St., N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14

#### TERPINEOL

(see also Essential Oils)

Aromatic Products, Inc., 15 E. 30th St., N. Y.  
Crosby Chemicals, Inc., Picayune, Miss.  
Dodge & Olcott, Inc., 180 Varick St., N. Y.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Felton Chemical Co., 603 Johnson Ave., Brooklyn, N. Y.  
Firmenich, Inc., 250 W. 18th St., N. Y.  
Florasynth Laboratories, 900 Van Nest Ave., N. Y.  
Fritzsche Bros., 76-9th Ave., N. Y. 11  
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.  
Hercules Powder Co., 961 Market St., Wilmington  
Magnus, Mabey & Reynard, 16 Desbrosses St., N. Y. 13  
Newport Industries, 230 Park Ave., N. Y.  
Polak's Frutal Works, 33 Sprague St., Middletown, N. Y.  
Schimmel & Co., 601 W. 26th St., N. Y. 1  
Ungerer & Co., 161 Ave. of Americas, N. Y. 13  
van Ameringen-Haebler, Inc., 521 W. 57th St., N. Y.  
Verona Chem. Co., 26 Verona Ave., Newark, N. J.

#### TESTING (see Laboratories, Testing)

#### TETRASODIUM PYROPHOSPHATE

Blockson Chemical Co., Joliet, Ill.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chemical Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y. 6

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Tetra Sodium  
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Soap builder, household and industrial cleaner and detergent, outstanding water softener, emulsifier, dispersing and deflocculating agent.

Regular (crystals)—100-lb. paper bags; 300-lb. and 100-lb. drums. Powdered—100-lb. paper bags; 350-lb. and 100-lb. drums.

"Tetra Sodium Pyrophosphate," Technical Bulletin P-24. New Sodium Phosphates brochure.

**STP**

Sodium  
Triphosphate  
 $\text{Na}_3\text{P}_3\text{O}_{10}$

Soap builder, detergent and water softener; eliminates scum and soap curds in hard water.

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New Sodium Phosphates brochure.

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Disodium  
Phosphate  
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New Sodium Phosphates brochure.

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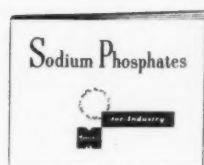
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A new nonionic surface-active agent with very high wetting and deterative properties. Chemically inert, stable with strong alkalis, and active over a wide range of conditions. Ideal for all cleaners, e.g.:

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Technical Bulletin I-147.

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Technical Bulletin I-116.

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Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
Shea Chem. Corp., 1201 St. Paul St., Baltimore  
Victor Chemical Works, 155 N. Wacker Dr., Chicago 6  
Virginia-Carolina Chem. Corp., Richmond 5, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Westvaco Mineral Prods. Div., Food Machy. & Chem. Corp., 161 E. 42nd St., N. Y.

## TEXTILE SOAPS

American Soap & Washoline Co., Cohoes, N. Y.  
Armour Industrial Soap Dept., Chicago 9  
Beach Soap Co., Lawrence, Mass.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Colgate-Palmolive Co., 105 Hudson St., Jersey City, N. J.  
Crystal Soap & Chem. Co., 6300 Starr Rd., Phila. 35  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Eagle Soap Corp., Huntington, Ind.  
J. Eavenson & Sons, Del. & Penn. Sts., Camden, N. J.  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
H. Kohnstamm & Co., 91 Park Pl., N. Y.  
Laurel Soap Mfg. Co., Tioga St., Phila.  
Long Island Soap Co., 29 Bridgewater St., Brooklyn  
Los Angeles Soap Co., 617 E. 1st St., Los Angeles, Calif.  
M. Michel & Co., 90 Broad St., N. Y.  
Miranol Chemical Co., 277 Coit St., Irvington, N. J.  
Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.  
National Milling & Chemical Co., 4601 Nixon St., Phila. 27  
National Soap Co., 357 South 26th St., Tacoma, Wash.  
National Southern Products, Tuscaloosa, Ala.  
Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey City 2  
Original Bradford Soap Wks., West Warwick, R. I.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Procter & Gamble Dist. Co., Cincinnati  
Refined Prods. Corp., Lyndhurst, N. J.  
Rome Soap Mfg. Co., N. Y.  
Sanders Chem. Co., 2205 N. American St., Phila. 23  
Sandoz Chemical Works, 61 Van Dam St., N. Y.  
Scholler Bros., 3301 Amber St., Philadelphia  
Standard Soap Co., Camden, N. J.  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Swift & Co., Union Stock Yards, Chicago  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Ultra Chem. Wks., Inc., 2 Wood St., Paterson, N. J.  
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.  
Warwick Chemical Co., 10 St. & 44th Ave., Long Island City, N. Y.  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.  
Allen B. Wisley Co., 801 W. 65th St., Chicago, Ill.

## TEXTILE SPECIALTIES

Antara Chemicals, Div. Gen. Aniline & Film Corp., 435 Hudson St., N. Y.  
Armour Chem. Div., Chicago 9  
Atlas Powder Co., Wilmington  
Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington  
Emulsol Chemical Corp., 59 E. Madison St., Chicago  
Geigy Industrial Chems., 89 Barclay St., N. Y. 8  
Hercules Powder Co., 961 Market St., Wilmington, Dela.  
Heyden Chemical Corp., 342 Madison Ave., N. Y. 17  
Kearny Mfg. Co., Kearny, N. J.  
Marathon Corp., Rothschild, Wisc.  
M. Michel & Co., 90 Broad St., N. Y.  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
Nopco Chemical Co., First & Essex Sts., Harrison, N. J.  
Oronite Chem. Co., 200 Bush St., San Francisco  
Procter & Gamble Dist. Co., Cincinnati  
L. Sonneborn Sons, 300 4th Ave., N. Y.  
Stepan Chem. Co., 20 N. Wacker Dr., Chicago  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Treprow Prods., Inc., 59 Camden St., Paterson, N. J.

Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Victor Chem. Wks., 155 N. Wacker Dr., Chicago 6  
Warwick Chem. Co., 10-10 44th Ave., Long Island City, N. J.

## THALLIUM SULFATE

Bershire Chemicals, Inc., 420 Lexington Ave., N. Y. 17  
Idico Prods. Co., 1 W. 125 St., N. Y. 27  
Foote Mineral Co., 1609 Summer St., Phila.  
Merck & Co., Rahway, N. J.  
Pfaltz & Bauer, Inc., 35<sup>th</sup>—5th Ave., N. Y.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y.

## THEATRE SPRAYS (Deodorant Sprays)

Ampion Corp., 4-88 47 Ave., Long Island City, N. Y.  
A-M-R Chem. Co., 985 E. 35th St., Bklyn. 10  
Baird & McGuire, Inc., Holbrook Mass.  
Banner Chemical Prod., Co., 9 Calumet St., Newark, N. J.  
Baums Castorine Co., 200 Mathew St., Rome, N. Y.  
Bilco Chemical Co., 607 Degraw St., Bklyn.  
Boston Chemical Industries, 64 E. Brookline St., Boston  
Brilco Labs., 1553-63rd St., Bklyn.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 Throop St., Chicago  
Clifton Chemical Co., 62 William St., N. Y.  
Eagle Soap Corp., Huntington, Ind.  
Elkay Products Corp., 323 W. 16th St., N. Y.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
James Good Co., 2107 Susquehanna Ave., Phila.  
Higley Chemical Co., Dubuque, Iowa  
Hunt Mfg. Co., Lisbon Rd., Cleveland  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
Midland Labs., Dubuque, Ia.  
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Rex-Cleanwall Corp., Brazil, Ind.  
Rochester Sanitary Prods. Co., Rochester, N. Y.  
Science Industries, 1509 N. Broadway, St. Louis  
E. B. Snyder Laboratories, 4450 Leiper St., Phila. 24  
George Stearns Chem. Corp., 4200 E. Mendota St., Madison, Wisc.  
Trio Chem. Wks., 341 Scholes St., Bklyn. 6  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
U. S. Sanitary Specialties Corp., 1001 S. California Blvd., Chicago 12  
James Varley & Sons, 1200 Switzer Ave., St. Louis 15  
Victory Chem. Co., 148 Fairmount Ave., Phila.  
G. H. Wood & Co., Box 34, Toronto, Ont., Canada

## THYMOL (see Aromatic Chemicals)

## TIN CRYSTALS (Stannous Chloride)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
J. T. Baker Chem. Co., Phillipsburg, N. J.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97 St., Cleveland  
Metal & Thermit Corp., 120 Broadway, N. Y.

## TITANIUM OXIDE (for toilet soaps)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. 20  
E. I. du Pont de Nemours & Co., Wilmington Del.  
Titanium Pigment Co., 111 Broadway, N. Y.  
R. T. Vanderbilt Co., 230 Park Ave., N. Y.  
Whittaker, Clark & Daniels, 260 W. Bway., N. Y.  
Witco Chemical Co., 122 E. 42 St., New York

## TOILET PAPER

A. P. W. Paper Co., Albany, N. Y.  
Brown Co., Portland, Me.  
Hoberg Paper & Fiber Co., Green Bay, Wisc.



Scott Paper Co., Chester, Pa.  
 Straubel Paper Co., Green Bay Wisc.  
 Victoria Paper Mills Co., Fulton, N. Y.  
 Wheeler Paper Co., 299 Madison Ave., N. Y.

#### TOILET PAPER HOLDERS

A. P. W. Paper Co., Albany, N. Y.  
 Bennett Mfg. Co., Alden, N. Y.  
 Franklin Metal Prods. Co., 1500 S. Wabash Ave.,  
 Chicago  
 Palmer Fixture Co., Waukesha, Wisc.  
 Scott Paper Co., Chester, Pa.  
 Shore Metal Products, 2881 E. Pico, Los Angeles

#### TOILET PREPARATIONS (Private Label)

(see also Bath Salts, Shampoos, etc.)

Avon Products, Inc., Suffern, N. Y.  
 G. Barr & Co., 3601 S. Racine Ave., Chicago  
 Fuld Bros., 702 S. Wolfe St., Baltimore 3  
 R. Gesell, Inc., 200 W. Houston, N. Y.  
 Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
 Old Empire, Inc., Mt. Prospect & Verona Ave.,  
 Newark, N. J.  
 Propel Chemicals, Inc., 415 Lexington Ave., N. Y.  
 Schmidt Soap Products Co., 236 W. North Ave., Chicago  
 Shores Co., Cedar Rapids, Ia.  
 John T. Stanley Co., 642 W. 30th St., N. Y.  
 Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### TOILET SEAT COVERS

Lorco Industries, Clarke & Hornet Sts., Cincinnati  
 Morton Mfg. Co., 5105 W. Lake St., Chicago  
 Sani-Gard Mfg. Co., 240 W. Ave., Twenty Six, Los  
 Angeles 31  
 Potlatch Forests, Inc., 1450 W. Holt St., Pomona, Calif.

#### TOILET SOAP BASE (for Cakes)

Armour & Co., 1355 W. 31st St., Chicago  
 Duveen Soap Corp., 36-14 35 St., Long Island City 6,  
 N. Y.  
 J. Eavenson & Sons, Camden, N. J.  
 Hewitt Soap Co., Dayton, O.  
 Knolar Prods., Inc., 17th & Federal Sts., Camden 5,  
 N. J.  
 Los Angeles Soap Co., 617 E. 1st St., Los Angeles, Calif.  
 Nopco Chem. Co., First & Essex Sts., Harrison, N. J.  
 Peck's Products, 610 E. Clarence Ave., St. Louis  
 Procter & Gamble Dist. Co., Cincinnati  
 Schmidt Soap Products Co., 236 W. North Ave., Chicago  
 Swift & Co., Chicago 9  
 John T. Stanley Co., 642 W. 30th St., N. Y.  
 Allen B. Wrisley Co., 6801 W. 65th St., Chicago, Ill.

#### TOOTH PASTE (Private Label)

Avon Products, Inc., Suffern, N. J.  
 R. Gesell, Inc., 200 W. Houston St., N. Y.  
 Old Empire, Inc., Mt. Prospect & Verona Ave.,  
 Sheffield Tube Corp., New London, Conn.  
 John T. Stanley Co., 642 W. 30th St., New York  
 Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### TOILET SOAPS, CAKE (Private Label)

Aid Soap Mfg. Co., Rochester, Pa.  
 Armour & Co., 1355 W. 31st St., Chicago  
 Baum's Castorine Co., Rome, N. Y.  
 Brunswick Soap Co., 240 Plymouth St., N. Y.  
 Chicago Sanitary Prods. Co., 3100 S. Throop St.,  
 Chicago  
 Cudahy Packing Co., 221 N. LaSalle St., Chicago  
 Duveen Soap Corp., 36-14 35th St., Long Island City,  
 N. Y.

## For quality PRIVATE BRAND Soap

Since the Hewitt Soap Company was established in 1884, our efforts have been to provide the finest quality products at all times. We continually improve each process and product as fast as technical "know-how" and consumer tests allow. Every material we receive must meet specified laboratory tests for quality. During the production cycle, constant checks are made to maintain set standards. Every employee takes great pride in his or her part in protecting our high quality standards, from raw materials to finished product.

All this means that your product will be the very best. It will be one your consumer will like and one that will reflect to your credit every time it is used. This adds up to more business for you. So, for all of your soap and detergent needs let Hewitt work with you.

Fine milled and shaving soap, soap base; soap flakes, chips, and granules; synthetic detergents in granules or liquid; scouring cleanser or pumice; coconut oil, liquid, or oil soaps.

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SCOURING SOAPS

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S H A M P O O S

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LIQUID CLEANERS

CHEMICAL CLEANERS

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**JOHN T. STANLEY CO., INC.**

*Master Soap Makers Since 1865*

626-662 W. 30th Street

New York, N. Y.

#### TOILET SOAPS (Private Label) (Contd.)

J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.  
Haag Labs, Inc., 14000 S. Seeley Ave., Blue Island, Ill.  
Hewitt Soap Co., Dayton, O.  
Knolar Prods., Inc., 17th & Federal Sts., Camden 5, N. J.  
Lever Bros. Co., 390 Park Ave., N. Y.  
Long Island Soap Co., 29 Bridgewater St., Brooklyn  
Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
Los Angeles Soap Co., 617 E. 1st St., Los Angeles, Cal.  
National Soap Co., Box 1613, Tacoma, Wash.  
North Coast Soap & Chem. Wks., Seattle, Wash.  
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark, N. J.  
Procter & Gamble Co., Cincinnati  
Schmidt Soap Products Co., 236 W. North Ave., Chicago  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Swift & Co., Chicago  
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.  
Wolf Creek Soap Co., Dayton, Ohio  
Allen B. Wrisley, Co., 6801 W. 65th St., Chicago

#### TOWEL DISPENSERS (see Vending Machines)

#### TOXAPHENE

Hercules Powder Co., 961 Market St., Wilmington, Del.

#### TOXAPHENE FORMULATIONS (Bases and Finished Sprays and Powders)

Acock Laboratories, 2700 E. 5th St., Austin, Tex.  
Agricultural Chemical Co., 18th & E. Jackson Sts., Phoenix, Ariz.  
Agricultural Sulphur & Chem. Co., 417 N. Perry St., Montgomery, Ala.  
Ashcraft-Wilkinson Co., Trust Co. of Georgia Bldg., Atlanta, Ga.

Balcom Industries, 600-601 Tenth St., Greeley, Colo.  
California Spray-Chemical Corp., Richmond, Calif.  
Central Chem. Co., 49 N. Jonathan St., Hagerstown, Md.  
Chapman Chem. Co., 38 Court St., Memphis, Tenn.  
Chipman Chem. Co., Bound Brook, N. J.  
William Cooper & Nephews, 1909 Clifton St., Chicago  
Diamond Alkali Co., Union Commerce Bldg., Cleveland  
Douglas Chem. Co., 620 E. 16 Ave., North Kansas City, Mo.  
Durham Chem. Co., 4124 E. Pacific Way, Los Angeles  
Flag Sulphur & Chem. Co., Tampa, Fla.  
Florida Agricultural Supply Co., Box 658, Jacksonville, Fla.  
Food Machy. Corp., Niagara Sprayer & Chem. Div., Middleport, N. Y.  
Fresno Agricultural Chem. Co., Fresno, Calif.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
General Chem. Div., Allied Chem. & Dye Corp. 40 Rector St., N. Y. 6  
Georgia-Carolina Oil Co., 1403 Sixth St., Macon, Ga.  
Hayes-Sammons Co., Mission, Texas  
Kwik-Way Chem. Co., Box 2536, San Antonio, Texas  
O. E. Linck Co., Route 6 & Valley Rd., Clifton, N. J.  
McConnon and Co., Winona, Minn.  
McLaughlin, Gormley, King Co., 1715 S. E. 5th St., Minneapolis  
C. J. Martin & Sons, 413 Chicon St., Austin, Texas  
Naco Fertilizer Co., Box 858, Charleston, S. C.  
Naugatuck Chem. Div., U. S. Rubber Co., Naugatuck, Conn.  
Olin Mathieson Chem. Corp., Baltimore 3  
Pennsylvania Salt Mfg. Co., Widener Bldg., Phila.  
Phoenix Chem. Co., 19th Ave., & Roosevelt, Phoenix, Ariz.  
Pittsburgh Coke & Chem. Co., 2000 Grant Bldg., Pittsburgh  
Plainsman Supply Co., Plainview, Texas  
Port Fertilizer & Chem. Co., Los Fresnos, Texas  
John Powell Div., 1 Park Ave., N. Y.  
Prentiss Drug & Chem. Co., 110 Williams St., N. Y.

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For PLANT MODERNIZATION and EXPANSION  
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*years of experience*  
in new, used and reconditioned  
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All items in stock, ready for shipment  
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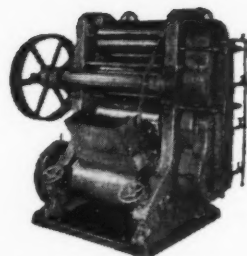
- H. Single Screw Soap Plodders, 4, 6, 8, and 10"
- H-A Automatic Soap Slabbers
- Empire State and Crosby Foot Soap Presses
- Toilet Soap Mills — 2, 3, 4, 5 roll
- Blanchard 10A and 14 Soap Powder Mills
- Mikro Pulverizer
- Filling and Weighing Machines for flakes, powder, etc.
- Steel Soap Frames, 1,000 to 1200 lb. cap.
- Automatic Soap Wrapping Machines
- Sperry and Shriver Filter Presses, various sizes
- Amalgamators
- H. Automatic Soap Cutting Tables
- Proctor & Schwartz Soap Chip Dryers complete
- Dopp Steam Jacketed Soap Crutchers
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- Soap Dies for Automatic and Foot Presses
- Pumps, various types and sizes
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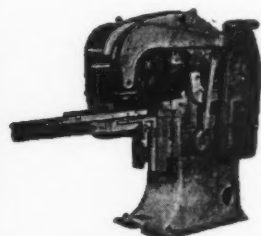
**NEWMAN**

**TALLOW and  
SOAP MACHINERY  
Company**

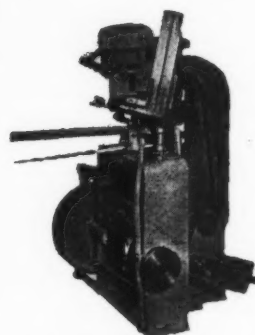
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TOILET SOAP MILLS  
3 Roll — 4 Roll — 5 Roll  
STEEL and Granite Rolls



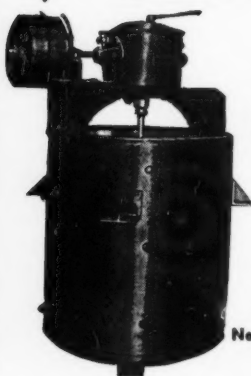
JONES Horizontal Type AUTOMATIC  
combination laundry and toilet soap  
presses. Single or Double Kick.



Jones Vertical type  
AUTOMATIC Toilet Soap Presses.



Single screw soap plodders with 6, 8,  
10 or 12 inch screws. All completely  
rebuilt and unconditionally guaranteed



AUTOMATIC POWER CUTTING TABLES

Newman's Steel Steam Jacketed SOAP CRUTCHERS.  
BRAND NEW. Sizes 1,000 to 10,000 lbs.



## TOXAPHENE FORMULATIONS (Contd.)

Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.  
Ralston Purina Co., 835 S. 8th St., St. Louis  
Reasor-Hill Corp., Jacksonville, Ark.  
Riverdale Chem. Co., 324—174th St., Harvey, Ill.  
Shell Chemical Corp., 50 W. 50 St., N. Y.  
Sherwin-Williams Co., 101 Prospect Ave., N.W.,  
Cleveland  
Southwest Co-operative Wholesale, 1821 E. Jackson St.,  
Phoenix, Ariz.  
Stauffer Chem. Co., 380 Madison Ave., New York  
Thompson-Hayward Chemical Co., 2915 S. W. Blvd.,  
Kansas City, Mo.  
Tyner-Petrus Co., 100 Trenton St., West Monroe, La.  
F. H. Vahlsing, Inc., Elsa, Texas  
Woolfolk Chemical Works, Fort Valley, Ga.

## TOWEL DISPENSERS (see Vending Machines)

## TRASH CARTS (see Waste Receptacles)

## TRIETHANOLAMINE

Amsco Solvents & Chems. Co., 4619 Reading Rd., Cin-  
cinnati  
Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y.  
Central Solvents & Chems. Co., 2540 W. Flournoy St.,  
Chicago  
Dixie Solvents & Chems. Co., Dixie Highway at Apple-  
ton Lane, Louisville, Ky.  
Dow Chemical Co., Midland, Mich.  
Hoosier Solvents & Chems. Corp., 1650 Luett St.,  
Indianapolis  
Jefferson Chemical Co., 260 Madison Ave., N. Y. 16  
Missouri Solvents & Chems. Co., 419 DeSoto, St. Louis  
Nitrogen Div., Allied Chem. & Dye Corp., 40 Rector St.,  
N. Y.  
Ohio Solvents & Chems. Co., 3470 W. 140 St., Cleveland  
Olin Mathieson Chem. Corp., Baltimore 23  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Wisconsin Solvents & Chems. Corp., 1719 S. 83 St.,  
Milwaukee  
Wolverine Solvents & Chems. Co., 1500 Century Ave.,  
SW, Grand Rapids, Mich.

## TRIETHANOLAMINE SOAPS

Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods., 3100 S. Throop St.,  
Chicago 8  
Clifton Chemical Co., 62 William St., N. Y.  
Continental Oil Co., 630 5th Ave., N. Y. 20  
Davies-Young Soap Co., Dayton, O.  
Dominion Prods., Inc., 10-40 44 Drive, Long Island City  
1, N. Y.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Fuld Bros. Inc., 702 S. Wolfe St., Baltimore  
General Biochemicals, Inc., Chagrin Falls, O.  
James Good, Inc., 2107 E. Susquehanna Ave., Phila.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Kranich Soap Co., 60 Richards St., Bklyn.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
George Stearns Chem. Corp., 4200 E. Mendota St.,  
Madison, Wis.  
Trio Chemical Wks., 341 Scholes St., Bklyn. 6

## TRIPOLYPHOSPHATES (see Sodium Tripolyphosphate)

## TRISODIUM PHOSPHATE

(see also Brokers and Dealers)

Amer. Agricultural Chem. Co., 50 Church St., N. Y.  
Blockson Chemical Co., Joliet, Ill.  
General Chemical Div., Allied Chem. & Dye Corp.,  
40 Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland  
A. R. Maas Chem. Co., Div. of Victor Chem. Wks., 4570  
Ardine St., South Gate Calif.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
Shea Chem. Corp., 1201 St. Paul St., Baltimore  
Jos. Turner & Co., Ridgefield, N. J.  
Victor Chemical Works, 155 N. Wacker Dr., Chicago 6  
Virginia-Carolina Chemical Corp., Richmond, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Westvaco Mineral Prods. Div., Food Machy. & Chem.  
Corp., 161 E. 42nd St., N. Y.

## TUBE FILLING MACHINERY (see Filling Machy., Tube)

## TUBES (Collapsible)

Aluminum Company of America, Gulf Bldg., Pittsburgh  
Art Tube Co., Irvington, N. J.  
Globe Collapsible Tube Corp., 28 Columbia Heights,  
Brooklyn, N. Y.  
National Collapsible Tube Co., Providence, R. I.  
Peerless Tube Co., Bloomfield, N. J.  
Sheffield Tube Co., New London, Conn.  
Sun Tube Corp., 181 Long Ave., Hillside, N. J.  
Victor Metal Products Corp., 193 Newell St., Bklyn.  
White Metal Mfg. Co., 1012 Grand St., Hoboken, N. J.  
A. H. Wirz, Inc., Chester, Pa.

## TUBES (Celluloid, Acetate, Plastic, etc.)

Bradley Container Corp., Maynard, Mass.  
Lusteriod Container Co., So. Orange, N. J.  
Hygienic Tube Co., Newark, N. J.  
W. C. Ritchie & Co., 8880 Baltimore Ave., Chicago

## TUNG OIL

Archer-Daniels-Midland Co., Minneapolis, Minn.  
Atkins Kroll & Co., 320 California St., San Francisco 4  
Balfour Guthrie & Co., 67 Wall St., N. Y. 5  
Brown-Allen Chemicals, Inc., Port Richmond, Staten  
Island, N. Y.  
Geo. Degen & Co., 111 Broadway, N. Y. 6  
W. R. Grace & Co., 7 Hanover Sq., N. Y. 5  
Internatio Rotterdam, Inc., 61 Broadway, N. Y. 6, N. Y.  
Pacific Veg. Oil Corp., 3125 E. 26 St., Los Angeles 23  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Wah Chang Trading Corp., 233 Broadway, N. Y. 7  
G. A. Wharry & Co., 125 Broad St., N. Y.  
Woburn Chemical Corp., Harrison, N. J.

## TURPENTINE

American Turpentine Farmers Association, Valdosta,  
Ga.  
Antwerp Naval Stores Co., Savannah, Ga.  
Camp Mfg. Co., Franklin, Va.  
E. W. Colledge, P. O. Box 389 Jacksonville, Fla.  
Continental Turp. & Rosin Corp., Laurel, Miss.  
Crosby Chemicals, Inc., Picayune, Miss.  
Dixie Pine Prods. Co., Hattiesburg, Miss. (wood)  
Georgia Rosin Prods. Co., Brunswick, Ga.  
Glidden Co., Naval Stores Div., P. O. Box 389, Jackson-  
ville, Fla.  
Hercules Powder Co., 961 Market St., Wilmington, Del.  
Industrial Chem. Sales Div., 230 Park Ave., N. Y.  
Newport Industries, Inc., 230 Park Ave., N. Y.  
Phoenix Naval Stores Co., Gulfport, Miss. (wood)  
Taylor, Lowenstein & Co., Mobile, Ala.

## UNSCRAMBLERS, ROTARY AND STRAIGHT (for cans and bottles)

Chisholm Ryder Co. of Pa., Hanover, Pa.  
Filpaco Industries, 2464 S. Michigan Ave., Chicago 16  
Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh 4  
Island Equipment Corp., 27-01 Bridge Plaza N.,  
L. I. C., N. Y.  
M. R. M. Co., 191 Berry St., Bklyn.  
Standard-Knapp Div., of Emhart Mfg. Co., Portland,  
Conn.  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.  
U. S. Bottlers Machy. Co., 4019 N. Rockwell St., Chicago

## URNS (see Sand Urns)

## USED MACHINERY AND EQUIPMENT

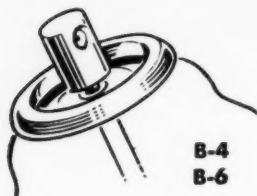
Brill Equipment Corp., 2401 Third Ave., N. Y.  
Chemical & Process Machy. Corp., 146 Grand St.,  
N. Y. 13  
Consolidated Products Co., 59 Garden St., Hoboken, N. J.  
Emsco Equipment Co., 39 Hyatt Ave., Newark, N. J.  
J. L. Ferguson Co., Joliet, Ill.  
First Machy. Corp., 209 10th St., Bklyn.



"The happy marriage of your quality product and a VCA valve is positive assurance of a 'repeat' customer"

# VCA

## AEROSOL VALVES



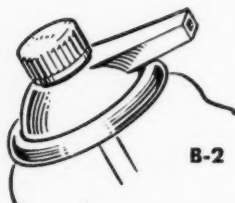
B-4  
B-6

### B-4 All Brass Construction

**TYPE VALVE** — space and surface spray.

**IDEAL FOR** insecticides, deodorants, air sanitizers, waxes, acrylic sprays, etc.

**FEATURE**—most efficient and versatile basic aerosol valve yet designed.



B-2

### B-2 All Stainless Steel

with stainless steel mounting cap

**TYPE VALVE** — foam

**IDEAL FOR** soaps, shampoos, shaving creams, hand creams and many cosmetic and food products.

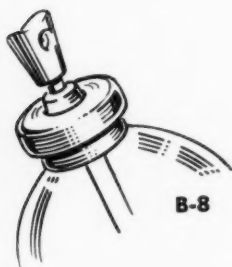
**FEATURE** — twist-lock button — no protective cap required.

### B-6 Stainless Steel—Nylon Stem

**TYPE VALVE**—space, surface spray and foam.

**IDEAL FOR** all products containing alcohol such as hair lacquer, hair cream and other cosmetic items. Also applicable to pharmaceutical industries.

**FEATURE** — completely non-corrosive.



B-8

### B-8 Glass Aerosol Stainless Steel—Nylon Stem

with aluminum ferrule

**TYPE VALVE**—space, surface spray and foam.

**IDEAL FOR** — perfumes, colognes, biologicals, etc.

**FEATURE** — completely non-corrosive.



Look to VCA for *all* your valve needs. Our research engineers are at your service for the discussion of your problem. Inquiries cordially invited.

A VCA valve's efficiency and versatility make it equally applicable to any product of any type in any field.



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Leading Manufacturers of Valves for  
Aerosol and Aerated Products

### USED MACHINERY (Contd.)

**Houchin Machinery Co., Hawthorne, N. J.**  
**Jasper Machy. Co., 282 Sixth St., Bklyn 15**  
**J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.**  
**Machinery & Equipment Co., 533 W. Broadway, N. Y.**  
**Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago**  
**Perry Equipment Corp., 1515 W. Thompson St., Phila. 21, Penna.**  
**Prater Pulverizing Co., 1825 S. 55th Ave., Chicago**  
**Chas. Ross & Son Co., 148 Classon Ave., Bklyn. 5, N. Y.**  
**Stein Equipment Co., 107-8th St., Bklyn. 15**  
**Union Standard Equipment Co., 318 Lafayette St., N. Y. 12**  
**Weigh Right Automatic Scale Co., 404 Grant Ave., Joliet, Ill.**

### VACUUM CLEANERS (Heavy Duty)

**American Floor Surfacing Mach. Co., 518 S. St. Clair St., Toledo, O.**  
**Breuer Electric Mfg. Co., 5100 N. Ravenswood Ave., Chicago**  
**Clarke Sanding Machine Co., Muskegon, Mich.**  
**Columbus-Dixon, Inc., 21 West St., N. Y.**  
**Doyle Vacuum Cleaner Co., 225 Stevens St., Grand Rapids 2, Mich.**  
**Hild Floor Machine Co., 740 W. Washington St., Chicago, Ill.**  
**Holt Manufacturing Co., 669 20 St., Oakland, Calif.**  
**Kent Co., 426 Canal St., Rome, N. Y.**  
**Lincoln-Schlueter Floor Machinery Co., 1250 W. Van Buren St., Chicago**  
**Multi-Clean Prods., 2277 Ford Pkwy., St. Paul**  
**National Super Service Co., Toledo 2, O.**  
**Ponsell Floor Machine Co., 220 W. 19th St., N. Y. 11**  
**Premier Co., 755 Woodlawn Ave., St. Paul, Minnesota**  
**Pullman Vacuum Cleaner, 33 Allerton St., Boston**  
**Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Indiana**  
**United Floor Machine Co., 7715 S. Chicago Ave., Chicago**

### VALVES, for Aerosol Dispensers

**Aerated Container Corp., 39 LaSalle St., Chicago 3**  
**Bridgeport Brass Co., Bridgeport 2, Conn.**  
**Calmar Co., 6800 McKinley Ave., Los Angeles, Calif.**  
**Clayton Corp., 4205 Forest Park Blvd., St. Louis 8, Mo.**  
**Demert & Dougherty, 3001 W. 47th St., Chicago**  
**Dill Manufacturing Co., 700 E. 82nd St., Cleveland, Ohio**  
**Paul Engstrum Associates, Washington, D. C.**  
**Nanuet Valve Co., Rt. 59, Nanuet, N. Y.**  
**Newman-Green Co., 507 Interstate Rd., Addison, Ill.**  
**Oil Equipment Laboratories, 600 Pearl St., Elizabeth N. J.**  
**Precision Valve Corp., 700 Nepperhan Ave., Yonkers, N. Y.**  
**Pressure-Pack, Inc., 18550 Mack Ave., Detroit, Mich.**  
**Risdon Manufacturing Co., Naugatuck, Conn.**  
**Ronor Corp., 1360 W. 9th St., Cleveland, Ohio**  
**A. Schrader's Son, Div. of Scovill Mfg. Co., 470 Vanderbilt Ave., Bklyn.**  
**Seaquist Mfg. Corp., Cary, Ill.**  
**Sprayon Products, Inc., 2075 E. 65th St., Cleveland, O.**  
**VCA, Inc., 1720 Fairfield Ave., Bridgeport**  
**Viking Valve Co., 419 E. Woodbine Ave., Louisville 8, Ky.**

### VANILLIN

**Dodge & Olcott Inc., 180 Varick St., N. Y.**  
**Dow Chemical Co., Midland, Mich.**  
**P. R. Dreyer, Inc., 601 W. 26th St., N. Y.**  
**Aromatic Products, Inc., 15 E. 30th St., N. Y.**  
**Felton Chemical Co., 603 Johnson Ave., Brooklyn, New York**  
**Florasynth Laboratories, 900 Van Nest Ave., N. Y.**  
**Fritzsche Bros., 76-9th Ave., N. Y. 11**  
**Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.**  
**Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y., N. Y.**  
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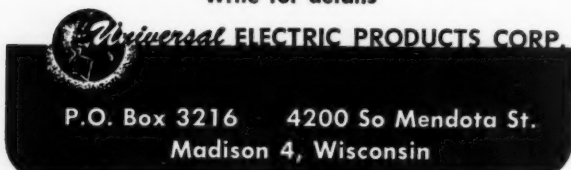
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Monsanto Chemical Co., 1700 S. 2nd St., St. Louis, Mo.  
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.  
Schimmel & Co., 601 W. 26th St., N. Y. 1  
Sterwin Chemicals, Inc., 1450 Broadway, N. Y. 18, N. Y.  
Ungerer & Co., 161 Ave. of Americas, N. Y. 13  
Verona Chemical Co., 26 Verona Ave., Newark, New Jersey

### VAPORIZERS (Insecticide, Deodorizing, Perfuming, etc.)

(see also *Sprayers and Atomizers*)

Allied Block Chemical Co., 428 Bingham St., Pittsburgh 3, Pa.  
American Aerovap, Inc., 170 W. 74th St., New York 23  
Arnold Laboratories, 1515 W. Glenoaks Blvd., Glendale, Calif.  
Columbia Chemical Co., 154 E. Erie St., Chicago  
De-Bug-Er, Inc., 632 W. Washington Ave., Madison, Wis.  
Hysan Prods. Co., 932 W. 38 Pl., Chicago 9  
Insect-O-Lite Co., 2904 Woodburn Ave., Cincinnati, O.  
Star Porcelain Co., 33 Muirhead Ave., Trenton, N. J.  
Universal Electric Prods., 2201 Regent St., Madison 5, Wis.  
Utica Sanitary Specialties, Inc., Oriskany Blvd., Whitesboro, N. Y.

### VARNISH GUMS (see Gums)

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Acorn Paper Co., 2145 Baker St., San Francisco  
(Towel)  
Bennett Mfg. Co., Alden, N. Y. (Towel)  
Brown Co., Portland, Me. (Soap and Paper Towel)  
Dash Metal Prods. Co., 260 47th St., Brooklyn, N. Y.  
(Towels)  
Franklin Metal Prods. Co., 1500-02 Wabash Ave., Chicago  
Hospital Specialty Co., 1991 E. 66 St., Cleveland, O.  
(Sanitary Napkin)  
Mipro Metal Prods. Co., 951 Howard St., San Francisco  
Palmer Fixture Co., Waukesha, Wis.  
Rochester Germicide Co., 333 Hollenbeck St., Rochester N. Y. (Sanitary Napkins)  
Shore Metal Products, 2881 E. Pico Blvd., Los Angeles (Towel)  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12 (Sanitary Napkin)

### VETIVER OIL (see Essential Oils)

### VOLCANIC ASH (see Abrasives and Fillers)

### WALL WASHING EQUIPMENT

Hild Floor Machine Co., 740 W. Washington St., Chicago  
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago  
Multi-Clean Prods., 2277 Ford Pkwy., St. Louis  
Ponsell Floor Machine Co., 220 W. 19 St., N. Y. 11  
Quaker Maintenance Co., 124 W. 18th St., N. Y. 11  
Rex-Cleanwall Corp., Brazil, Ind.

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S. B. Penick & Co., 50 Church St., N. Y. 8  
Prentiss Drug & Chem. Co., 110 William St., N. Y.

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A-M-R Chem. Co., 985 E. 35th St., Bklyn.  
Ampion Corp., 4-88 47th St., Long Island City, N. Y.  
California-Spray Chemical Corp., Richmond, Calif.  
Chase Products Co., 1816 St. Charles Rd., Maywood, Ill.  
Chemical Service of Baltimore, Howard & West Sts., Balto.



Douglas Chem. Co., 620 E. 16 Ave., North Kansas City, Mo.

Fuld Bros., 702 S. Wolfe St., Baltimore

Geigy Agric. Chems., 89 Barclay St., N. Y.

Hysan Products Co., 932 W. 38th St., Chicago

D. S. Lesnever & Son, 213 Summer St., Lynn, Mass.

John Opitz, Inc., 50-14 39th St., Long Island City, N. Y.

S. B. Penick & Co., 50 Church St., N. Y.

John Powell Div., 1 Park Ave., N. Y.

Prentiss Drug & Chem. Co., 110 William St., N. Y.

Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.

Science Industries, 1509 N. Broadway, St. Louis

Sennewald Drug Co., 2721 Chouteau Ave., St. Louis

George Stearns Chem. Corp., 4200 E. Mendota St.,

Madison, Wisc.

Uncle Sam Chemical Co., 573 W. 131 St., N. Y.

U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago

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Harnischfeger Corp., 4400 W. National Ave., Milwaukee

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Bennett Mfg. Co., Alden, N. Y.

Federal Fibre Corp., 3704 Tenth St., Long Island City 1,

N. Y.

Franklin Metal Products Co., 1500-02 Wabash Ave.,

Chicago

Jones & Laughlin Steel Corp., 401 Liberty Ave.,

Pittsburgh

F. H. Lawson Co., Evans & Whatley Sts., Cincinnati 4, O.

Master Metal Products, Inc., 291 Chicago St., Buffalo 5, N. Y.

National Can Corp., 3217 W. 47th Pl., Chicago 32

Shore Metal Products, 2881 E. Pico Blvd., Los

Angeles 23

United Metal Box Co., 168 7th St., Bklyn. 15

Witt Cornice Co., 2138 Winchell Ave., Cincinnati

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Belco Ind. Equipment Co., 51 Iowa Ave., Paterson, N. J.

Permutit Co., 330 W. 42nd St., N. Y.

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General Electric Co., Waterford, N. Y.

Linde Air Prods., 30 E. 42nd St., N. Y.

**WATER SOFTENERS**

Amer. Agricultural Chem. Co., 50 Church St., N. Y.

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.

Antara Chemicals, Div., General Aniline & Film Corp.,

435 Hudson St., N. Y. 14

Baum's Castorine Co., Rome, N. Y.

Blockson Chemical Co., Joliet, Ill.

Columbia-Southern Chem. Corp., 1 Gateway, Pittsburgh

E. I. du Pont de Nemours & Co., Wilmington

Frontier Chem. Prods., 119 E. Soper St., St. Louis 11

Fuld Bros., 702 S. Wolfe St., Baltimore

Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8

General Chem. Div., Allied Chem. & Dye Corp.,

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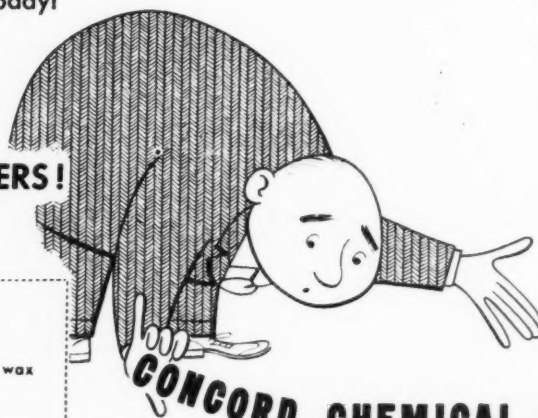
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Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
Olin Mathieson Chem. Corp., Baltimore 3  
Permutit Co., 330 W. 42nd St., N. Y.  
Port Huron Detergent Co., Port Huron, Mich.  
Procter & Gamble Dist. Co., Cincinnati  
Quaker Chem. Prods. Co., Conshohocken, Pa.  
Refined Products Corp., Page & Newkirk Ave., Lyndhurst, N. J.  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
Rumford Chemical Wks., 19 Newman St., Rumford, R. I.  
E. B. Snyder Labs., 4450 Leiper St., Phila.  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Geo. Stearns Chem. Corp., 4200 S. Mendota St., Madison, Wisc.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Versenes, Inc., Waverley St., Framingham, Mass.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Westvaco Chem. Div., Food Machy. & Chem. Corp., 161 E. 42nd St., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

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International Filter Co., 325 W. 25th Pl., Chicago  
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Amer. Lignite Products Co., Ione, Calif.  
Archer-Daniels-Midland Co., Minneapolis 2  
M. Argueso & Co., 442 Waverly Ave., Mamaroneck, N. Y.  
Avon Trading Co., 401 Broadway, N. Y.  
Candy & Co., 2515 W. 35th St., Chicago  
Cochrane Chem. Co., 151 Main St., Matawan, N. J.  
Concord Chem. Co., Moorestown, N. J.  
T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
Cornelius Prods. Co., 386 4th Ave., N. Y.  
Wm. Diehl & Co., 330 W. 42nd St., N. Y. 18  
Distributing & Trading Co., 444 Madison Ave., N. Y.  
Dura Commodities Corp., 20 Vesey St., N. Y. 7  
Everitt & Ray, 225 W. 23, Los Angeles 7  
Michael Hassel, 75 West St., N. Y. 6  
Industrial Raw Materials Corp., 575 Madison Ave., N. Y. 22  
O. G. Innes Corp., 82 Wall St., N. Y. 5  
International Wax Ref. Co., Valley Stream, N. Y.  
Koster Keunen, Sayville, N. Y.  
Lenape Trading Co., 233 Broadway, N. Y.  
Geo. H. Lincks, Inc., 312 Bridge St., Brooklyn, N. Y.  
Theodore Leonhard Wax Co., Haledon, N. J.  
Mercantile Wax Div., Mercantile Metal & Ore Corp., 595 Madison Ave., N. Y.  
Geo. A. Miel Co., Page Ave., Lyndhurst, N. J.  
Muench-Kreuzer Candle Co., Syracuse, N. Y.  
Orbis Products Corp., 601 W. 26th St., N. Y.  
S. B. Penick & Co., 50 Church St., N. Y.  
Pennotex Oil Corp., 29 Broadway, N. Y. 6  
Petrolite Corp., Ltd., Chrysler Bldg., N. Y.  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
R. F. Revson Co., 144 W. 18th St., N. Y.  
River Plate Corp., Chrysler Bldg., N. Y.  
Robinson Wagner Co., 110 E. 42nd St., N. Y.  
Rosenthal Berrow Co., 23 E. 26th St., N. Y.  
Frank B. Ross Co., 6-10 Ash Street, Jersey City, N. J.  
William H. Scheel, Inc., 38 Franklin St., Bklyn.  
Smith & Nichols, Inc., 121 Maiden Lane, N. Y. 38  
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CROWN WAX	M.P. °F.	PENETRATION	COLOR-NPA	ACID NO.	SAP. NO.
15	180 Min.	4 to 6	4-5	14-16	50-60
23	180 Min.	4 to 6	4-5	20-25	55-65
36	180 Min.	5 to 7	5-6	30-35	75-85
50	180 Min.	3 to 5	dark	10-20	65-75
180	180 Min.	15 Max.	2-2½	Nil	Nil
200	190 Min.	8 Max.	brown	Nil	Nil
500	190 Min.	8 Max.	2-2½	Nil	Nil
*700	190 Min.	4 Max.	2-2½	Nil	Nil
*1035	195 Min.	2 Max.	2-2½	Nil	Nil
Jet Black	185 Min.	11 to 16	black	Nil	Nil

\*Available in powdered form (16 mesh max.)

### SYNTHETIC AND SPECIAL WAX

PRODUCT	M.P. °F.	PENETRATION	COLOR-NPA	ACID NO.	SAP. NO.
*P-20	210-220	2 Max.	3 Max.		
*P-25	210-220	2 Max.	3 Max.		
PE-100	195-200	2-3	4-6	15-20	45-55
R-50	190-200	2 Max.	4½ Max.	40-50	65-80
PC-13	185-195	6 to 8			

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P25-E

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Strohmeyer & Arpe, 139 Franklin St., N. Y.  
Tilbury Refining Corp., 21 Dunham Pl., Bklyn. 11  
Hans Tobeason, 270 Park Ave., N. Y.  
Arthur C. Trask Co., 4103 S. LaSalle St., Chicago  
Warwick Wax Co., 10-10 44th Ave., L. I. C. 1, N. Y.  
Wax & Rosin Prods., 42 Broadway, N. Y. 4  
Will & Baumer Candle Co., Syracuse, N. Y.  
G. S. Ziegler & Co., 99 Church St., N. Y.

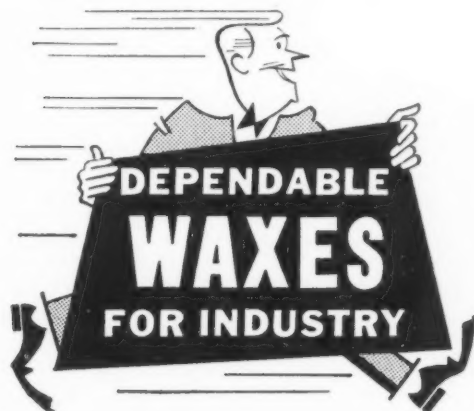
#### WAXES, FLOOR AND POLISHING (See Floor Waxes)

#### WAXES, Microcrystalline (Emulsifiable) (see Microcrystalline Waxes)

#### WAXES, (Compounded)

Allied Asphalt & Mineral Corp., 217 Broadway, N. Y.  
Amcco Solvents & Chems. Co., 4619 Reading Rd., Cincinnati  
M. Argueso & Co., 442 Waverly Ave., Mamaroneck, N. Y.  
Atlantic Refining Co., 260 S. Broad St., Phila.  
Atlas Powder Co., Wilmington, Del.  
Avon Trading Co., 401 Bdway., N. Y.  
Bakelite Corp., 30 E. 42nd St., N. Y.  
Baker Castor Oil Co., 120 Broadway, N. Y. C.  
Bareco Oil Co., Tulsa, Okla.  
Buffalo Solvents & Chem. Corp., N. O. #73, Sta. B, Buffalo  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
Carlisle Chemical Works, Reading, O.  
Cato Chemical Co., Elmhurst, Ill.  
Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago  
Cochrane Chemical Co., 151 Main St., Matawan, N. J.  
Commerce Oil Corp., Warren, Pa.  
Concord Chem. Co., Moorestown, N. J.

T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
Wm. Diehl & Co., 330 W. 42nd St., N. Y. 18  
Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Emulsol Chemical Corp., 59 E. Madison St., Chicago  
General Biochemicals, Inc., Chagrin Falls, O.  
General Dyestuff Corp., Div. General Aniline & Film Corp., 435 Hudson St., N. Y.  
Glyco Products Co., 350 5th Ave., N. Y.  
Hoosier Solvents & Chems. Corp., 1650 Luett St., Indianapolis  
Harchem Div., Wallace & Tiernan, Inc., Box 178, Newark, N. J.  
Industrial Raw Materials Co., 575 Madison Ave., N. Y. 22  
International Wax Ref. Co., Valley Stream, N. Y.  
Mercantile Wax Div., Mercantile Metal & Ore Corp., 595 Madison Ave., N. Y.  
Missouri Solvents & Chems. Co., 419 DeSoto, St. Louis, Mo.  
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
Koster-Keunen, Sayville, N. Y.  
Marchon Prods. Ltd., Whitehaven, Cumberland, England  
Nopco Chemical Co., 1st and Essex St., Harrison, N. J.  
Norco Prods. Co., E. Ontario & Bath Sts., Phila. 34  
Ohio Solvents & Chems. Co., 3470 W. 140 St., Cleveland  
Petroleum Specialties, Inc., 205 E. 42 St., N. Y. 17  
Petrolite Corp., Chrysler Bldg., N. Y.  
Pennotex Oil Corp., 29 Broadway, N. Y.  
River Plate Corp., Chrysler Bldg., N. Y.  
Rosenthal Bercow Co., 23 E. 26 St., N. Y.  
Frank B. Ross Co., 6-10 Ash St., Jersey City, N. J.  
Wm. H. Scheel, Inc., 38 Franklin St., Bklyn. 22  
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Shell Oil Co., 50 W. 50 St., N. Y. 20  
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Warwick Wax Co., 10-10 44th Ave., L. I. C. 1, N. Y.  
Wax Corp. of America, 38-40 S. 6 St., Bklyn.  
Wisconsin Solvents & Chems. Corp., 1719 S. 83 St., Milwaukee  
Wolverine Solvents & Chems. Co., 1500 Century Ave., SW, Grand Rapids, Mich.  
G. S. Ziegler & Co., 99 Church St., N. Y.

#### WAXES, SYNTHETIC

Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y.  
Carlisle Chem. Wks., Reading, O.  
Dura Commodities Corp., 20 Vesey St., N. Y.  
Glyco Prods. Co., 350 5th Ave., N. Y.  
Monsanto Chem. Co., St. Louis 4  
Pennotex Oil Corp., 29 Broadway, N. Y.  
Petrolium Corp., Chrysler Bldg., N. Y.  
Semet Solvay Petrochemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.

#### WAXES, Petroleum (emulsifiable)

Atlantic Refining Co., 260 S. Broad St., Phila.  
Bareco Oil Co., Box 2009, Tulsa, Okla.  
Industrial Raw Materials Co., 575 Madison Ave., N. Y.  
International Wax Refining Corp., Valley Stream, N. Y.  
Pennotex Oil Corp., 29 Broadway, N. Y.  
Petrolium Corp., Chrysler Bldg., N. Y.  
Warwick Wax Co., 10-10 44th Ave., Long Island City, N. Y.

#### WEED KILLERS (2, 4-D, Chloro IPC, etc.)

American Chem. Paint Co., Ambler, Pa.  
Atlantic Refining Co., 260 S. Broad St., Phila.  
Baird & McGuire, Inc., Holbrook, Mass.  
California Spray-Chemical Corp., Richmond, Calif.  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y. 17  
Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chipman Chem. Co., Bound Brook, N. J.  
Continental Car-Na-Var Corp., Brazil, Ind.  
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
Diamond Alkali Co., Union Commerce Bldg., Cleveland  
Douglas Chem. Co., 620 E. 16th Ave., North Kansas City, Mo.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Eagle Soap Corp., Huntington, Ind.  
Fairfield Chem. Div., 420 Lexington Ave., N. Y. 17  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Geigy Agric. Chems., 89 Barclay St., N. Y. 8  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
James Good Co., 2107 Susquehanna Ave., Phila.  
B. F. Goodrich Chemical Co., Cleveland 15  
Hysan Prods. Co., 932 W. 38 Pl., Chicago 9  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh  
McLaughlin, Gormley, King Co., 1715 5th St., S.E., Minneapolis  
Michigan Chemical Corp., St. Louis, Mich.  
Midland Laboratories, Dubuque, Iowa  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
Olin Mathieson Chem. Corp., Baltimore 3  
Pacific Coast Borax Co., 100 Park Ave., N. Y. 17  
Penn Salt Mfg. Co., Widener Bldg., Phila.  
Pittsburgh Coke & Chem. Co., 2000 Grant Bldg., Pittsburgh  
John Powell Div., 1 Park Ave., N. Y. 1  
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.  
Rohm & Haas Co., Washington Sq., Phila. 5  
Shell Chem. Corp., 50 W. 50th St., N. Y. 20  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City 8, Mo.  
U. S. Sanitary Specialties Corp., 1001 S. California Blvd., Chicago 12  
James Varley & Sons, 1200 Switzer Ave., St. Louis  
Wolverine Solvents & Chems. Co., 1500 Century Ave., SW, Grand Rapids, Mich.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.



Please note—  
the information  
contained on this  
page will be of no  
particular interest  
to anyone except  
manufacturers of  
LIQUID FLOOR WAXES!

# PETRONAUBA

## PETRONAUBA "C"

Melting Point.....180 Min.  
Penetration ..... 7 Max.  
Color ..... 3 Max.  
Acid Number.....22/28  
Saponification Number.....50/60  
Viscosity .....130 Max.

As compared with other oxidized waxes now on the market, Petronauba "C" has a distinct color advantage of 2½-NPA. The next closest being Bareco's own Petronauba "D". Users have reported greater stability in emulsion form as compared with competitive brands. Petronauba "C" is packed in cartons, each carton containing four 20-lb. slabs. Also available in palletized cartons, in truck load and/or carload quantities only. Samples are available for testing in your own laboratory.

## PETRONAUBA "D"

Melting Point.....185 Min.  
Penetration ..... 5 Max.  
Color ..... Amber  
Acid Number.....20/28  
Saponification Number.....50/60  
Viscosity .....175 Max.

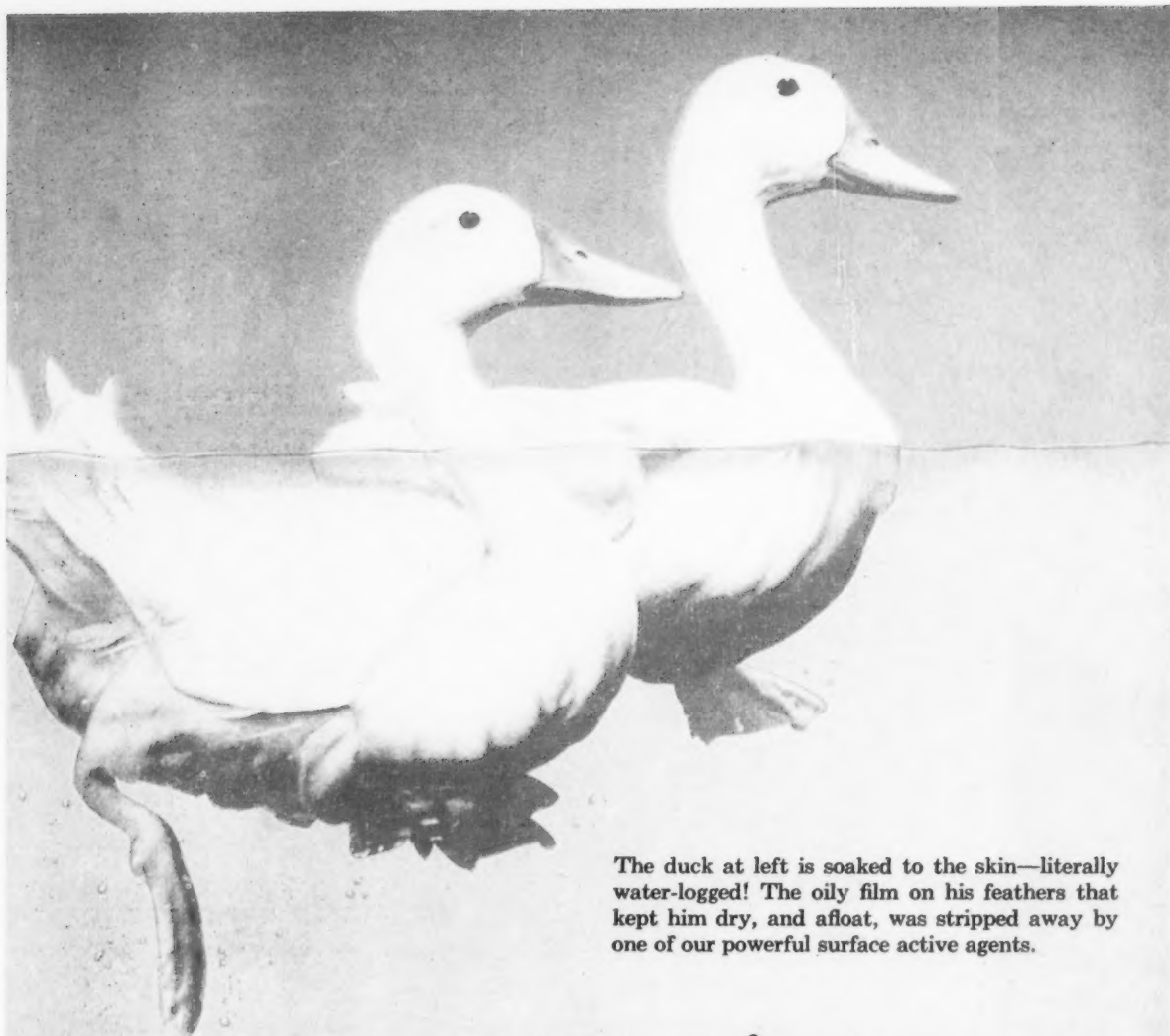
Through a new refining process Bareco's Petronauba "D" offers outstanding penetration to temperature relationships. In this process the soft, tacky fractions of the wax are removed. The result is a hard film which greatly increases the life span of the application. Petronauba "D" contains no additives of any kind and can be easily handled in liquid form due to its low viscosity. This amazingly low penetration emulsifiable petroleum wax is receiving widespread recognition and publicity because of its ability to resist dirt pick-up and black marking in emulsion floor finishes. Cartons contain 4 20-lb. slabs. Palletized cartons contain 84 20-lb. slabs. Samples for testing available at your request.

Four years ago the Bareco Oil Company started manufacturing its first emulsifiable wax. This was the Petronauba "C" grade which brought to the liquid floor polish industry increased stability and uniformity plus much lighter color. Petronauba "C" was enthusiastically received by manufacturers who were starting to rely more and more on emulsifiable petroleum waxes to replace or extend the more expensive and less plentiful natural wax products. Recently Bareco, through new discoveries in emulsifiable wax research, has started marketing Petronauba "D", and the outstanding reports from laboratories all over the country once again confirm the wisdom of Bareco's EXCLUSIVE dedication to the research and manufacture of petroleum waxes.



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P. O. BOX 2009 • TULSA, OKLA.  
121 S. BROAD ST. • PHILADELPHIA, PA.



The duck at left is soaked to the skin—literally water-logged! The oily film on his feathers that kept him dry, and afloat, was stripped away by one of our powerful surface active agents.

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Long before these ducks became famous, over 15 years ago, Cyanamid was working closely with the soap industry. Among the versatile chemicals we supply today are:

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- Metallic Stearates—of exceptional quality**
- Melamine—tarnish inhibiting agent**
- Other Organic Chemicals**
- Heavy Chemicals**

For a copy of our new booklet "AEROSOL SURFACE ACTIVE AGENTS," please write us on your company letterhead.



*AMERICAN Cyanamid COMPANY*

MANUFACTURERS CHEMICALS DEPARTMENT  
30 Rockefeller Plaza, New York 20, N. Y.

#### WEIGHING EQUIPMENT (Automatic)

Arenco Mach. Co., 25 W. 43 St., N. Y. 18  
Automatic Scale Co., P. O. Box 896, Joliet, Ill.  
Battle Creek Packaging Machs., Battle Creek, Mich.  
Consolidated Packaging Mch. Corp., 1400 West Ave.,  
Buffalo, N. Y.  
Exact Weight Scale Co., 944 5th Ave., Columbus 8, O.  
J. L. Ferguson Co., Joliet, Ill.  
B. F. Gump Co., 1338 S. Cicero Ave., Chicago  
S. Howes Co., Silver Creek, N. Y.  
Pneumatic Scale Corp., North Quincy, Mass.  
Rapids Machy. Co., Marion, Iowa  
Read Standard Corp., York, Pa.  
F. J. Stokes Machine Co., Tabor Rd., Phila., Pa.  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.  
Triangle Package Machinery Co., 6643 W. Diversey  
Blvd., Chicago  
Vol-U-Meter Co., 710 Ohio St., Buffalo, N. Y.  
Weigh Right Automatic Scale Co., 404 Grant Ave.,  
Joliet, Ill.

#### WETTING AGENTS (see also Detergents, Synthetic, and Sulfonated Oils)

Aceto Chemical Co., 40-40 Lawrence Ave., Flush-  
ing, N.Y.  
American Alcolac Corp., 3440 Fairfield Rd., Balto.  
American-British Chem. Supplies, 180 Madison Ave.,  
N. Y. 16  
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Antara Chemicals, Div. General Aniline & Film Corp.,  
435 Hudson St., N. Y. 14  
Armour Chemical Div., 1355 W. 31st St., Chicago  
Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Atlas Powder Co., Wilmington, Del.  
Blockson Chemical Co., Joliet, Ill.  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
Central Solvents & Chem. Co., 2540 W. Flournoy St.,  
Chicago  
Continental Oil Co., 636 5th Ave., N. Y. 20  
Commerical Solvents Corp., 260 Madison Ave., N. Y.  
Diamond Alkali Co., Cleveland 14  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Emery Industries, 4300 Carew Tower, Cincinnati  
Emulsol Chemical Corp., 59 E. Madison Ave., Chicago  
Finetex, Inc., P. O. Box 414, Pompton Plains, N. J.  
Frontier Chem. Prods., 119 E. Soper St., St. Louis 11  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
Glyco Prods. Co., 350 5th Ave., N. Y.  
Harchem Div., Wallace & Tiernan, Inc., Box 178, New-  
ark, N. J.  
Hercules Powder Co., 961 Market St., Wilmington, Del.  
Hysan Products Co., 932 W. 38th Pl., Chicago  
Jefferson Chem. Co., 260 Madison Ave., N. Y. 16  
Kearny Mfg. Co., Kearny, N. J.  
Marchon Prods. Ltd., Whitehaven, Cumberland, England  
Maywood Chem. Wks., Maywood, N. J.  
M. Michel & Co., 90 Broad St., N. Y.  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
National Aniline Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y.  
National Southern Products, Tuscaloosa, Ala.  
Ninol Laboratories, 1719 S. Clinton St., Chicago 16  
Nopco Chem. Co., 1st & Essex St., Harrison, N. J.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey  
City 2  
Oronite Chem. Co., 200 Bush St., San Francisco  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis 15  
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.  
Procter & Gamble Distributing Co., Cincinnati  
Quaker Chem. Prods. Co., Conshohocken, Pa.  
Refined Prods. Corp., Lyndhurst, N. J.  
Robinson Wagner Co., 110 E. 42nd St., N. Y.  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
Sharples Chemicals, Inc., Widener Bldg., Phila.  
L. Sonneborn Sons, 300 4th Ave. N. Y.  
Stanco Distributors, Inc., 216 W. 14th St., N. Y.  
Geo. Stearns Chem. Corp., 4200 S. Mendota St., Madi-  
son, Wisc.  
Stapan Chem. Co., 20 N. Wacker Drive, Chicago  
Swift & Co., Industrial Oil Dept., Hammond, Ind.



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- Dispersing
- Wetting
- Cleansing
- Frothing
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## WETTING AGENTS (Contd.)

Synthetic Chemicals, Inc., 335 Boulevard, Paterson 4, N. J.  
Tennessee Corp., 619 Grant Blvd., Atlanta, Ga.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Trepow Prods., Inc., 59 Camden St., Paterson, N. J.  
Ultra Chemical Works, 2 Wood St., Paterson, N. J.  
Versenes, Inc., Waverley St., Framingham, Mass.  
Universal Detergents, Inc., 1825 E. Spring St., Long Beach, Calif.  
Van Dyk & Co., Belleville, N. J.  
Victor Chem. Works, 155 N. Wacker Dr., Chicago  
Virginia-Carolina Chem. Corp., Richmond, Va.  
Warwick Chemical Co., 10 St. & 44th Ave., Long Island City, N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y. 19  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

## WHALE OIL

(see also *Brokers and Dealers*)

Archer-Daniels-Midland Co., Minneapolis  
F. A. Marsily & Co., 15 Whitehall St., N. Y.  
Murray Oil Prods. Co., 21 West St., N. Y.  
J. H. Redding Co., 17 Battery Pl., N. Y.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Wilbur-Ellis Co., 17 Battery Pl., N. Y.

## WHALE OIL SOAPS

(see also *Fish Oil Soaps*)

Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
James Good, Inc., 2107 Susquehanna Ave., Phila.  
Murro Chemical Co., Portsmouth, Va.  
National Soap Co., Box 1613, Tacoma, Wash.  
Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
North Coast Chemical & Soap Works, Seattle, Wash.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Proctor & Gamble Dist. Co., Cincinnati 1

## WHITE ARSENIC (see Arsenic)

## WHITE MINERAL OILS

Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Pennsylvania Refining Co., Butler, Pa.  
Petroleum Specialties, Inc., 205 E. 42nd St., N. Y. 17  
Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
Sherwood Refining Co., Englewood, N. J.  
L. Sonneborn Sons, 300 4th Ave., N. Y. 10  
Standard Oil Co. (Calif.), 225 Bush St., San Francisco  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
F. W. Steadman Co., 59 Pearl St., N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y.

## WHITENING AGENTS (see Optical Bleaches)

## WINDSHIELD CLEANERS, (see Glass and Windshield Cleaners)

## WIPING CLOTHS

American Cotton Prods. Co., 2516 S. Damen Ave., Chicago 8  
Burcott Mills, 302 N. Loomis St., Chicago  
Charles Belsky & Sons, 5350 Main St., Holyoke, Mass.  
Chicago Sanitary Rag Co., 2139 S. Loomis St., Chicago  
Leshner Corp., Hamilton, O.  
National Waste Co., 366 Madison Ave., N. Y.  
Rittenbaum Bros., 691 Houston St., N. E. Atlanta, Ga.  
Sanitex Corp., 2321 N. Wolcott, Chicago  
Standard Wiping Materials, 17 E. 42nd St., N. Y.  
Zelinkoff Co., 345-47 N. Main St., Wichita, Kan.

## WINTERGREEN OIL (see Essential Oils)

## WOOD FLOUR

Becker Moore & Co., N. Tonawanda, N. Y.  
Frank Miller & Sons, 2250 W. 58th St., Chicago  
Natl. Sawdust Co., 69 N. 6th St., Bklyn.  
Tennessee Prods. & Chem. Corp., American National Bank Bldg., Nashville, Tenn.

G. A. Wharry & Co., 125 Broad St., N. Y. 4  
Wilner Wood Products Co., Norway, Me.  
Witco Chemical Co., 122 E. 42 St., N. Y.  
Wood Flour, Inc., Winchester, N. H.

## WOOD PRESERVATIVES

Baird & McGuire, Inc., Holbrook, Mass.  
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
California Spray-Chemical Corp., Richmond, Calif.  
Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago  
Cliffs-Dow Chemical Co., Midland, Mich.  
Cuprinol Div.,—Darworth, Inc., Simsbury, Conn.  
E. I. du Pont de Nemours & Co., Wilmington  
Ferro Chemical Corp., Bedford, Ohio  
Hercules Powder Co., 961 Market St., Wilmington, Dela.  
Hoosier Solvents & Chemicals Corp., 1650 Luett St., Indianapolis  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh  
Monsanto Chemical Co., St. Louis  
Neville Chemical Co., Neville Island, Pittsburgh  
Olin Mathieson Chem. Corp., Baltimore  
Oronite Chemical Co., 200 Bush St., San Francisco  
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kansas  
Reilly Tar & Chem. Corp., Indianapolis 5, Ind.  
L. Sonneborn Sons, Inc., 300 4th Ave., N. Y. 10  
Tennessee Prods. & Chem. Corp., American National Bank Bldg., Nashville, Tennessee  
Texas Solvents & Chem. Co., 3501 Market St., Houston  
R. T. Vanderbilt Co., 230 Park Ave., N. Y. 17  
Velsicol Corp. 330 E. Grand Ave., Chicago  
Wisconsin Solvents & Chems. Corp., 1719 S. 83rd St., Milwaukee  
Witco Chemical Co., 122 E. 42 St., N. Y.  
Wolverine Solvents & Chems. Co., 1500 Century Ave., SW, Grand Rapids, Mich.  
Zinsser & Co., Hastings-on-Hudson, N. Y.

## WOOL GREASE (see Lanolin)

## WOOL WAX (see Lanolin)

## WRAPPING MACHINERY

Battle Creek Packing Machines, Inc., Battle Creek, Mich.  
Consolidated Products Co., 59 Garden St., Hoboken, N. J. (Used)  
J. L. Ferguson Co., Joliet, Ill.  
Hudson-Sharp Machine Co., Green Bay, Wisc.  
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.  
Miller Wrapping & Sealing Mach. Co., 16 S. Clinton St., Chicago  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago (Used)  
Package Machinery Co., East Longmeadow, Mass.  
Pneumatic Scale Corp., North Quincy, Mass.  
F. B. Redington Co., 112 S. Sangamon St., Chicago  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.  
Triangle Package Mach. Co., 6643 W. Diversey Ave., Chicago 35  
Van Buren Wrapping Machy. Corp., 750 Grand St., Bklyn. 11

## YLANG YLANG OIL (see Essential Oils)

## ZINC NAPHTHENATE (see listings under Copper Naphthenate)

## ZINC OXIDE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Anaconda Sales Co., E. Chicago, Ind.  
J. T. Baker Chem. Co., Phillipsburg, N. J.  
Chas. B. Chrystal Co., 53 Park Pl., N. Y.  
Eagle-Picher Co., American Bldg., Cincinnati 1  
Harshaw Chem. Co., 1945 E. 97th St., Cleveland 6  
Mallinckrodt Chemical Works, St. Louis, Mo.  
Merck & Co., Rahway, N. J.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
New Jersey Zinc Co., 160 Front St., N. Y.  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
Rosenthal Bercow Co., 23 E. 26th St., N. Y.  
L. A. Salomon & Bro., 216 Pearl St., N. Y.  
Western Zinc Oxide Co., Leadville, Col.  
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.



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We list a few of the many aromatic materials produced by van Ameringen-Haebler, Inc. for the soap making industry. They can be relied upon for their purity and strict uniformity of odor. Bold faced listings are featured products of our plant which we consider to be of special interest as they represent either unusual grades of the more well-known materials or new research discoveries which embody interesting new odor characteristics.

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- SECOND** to accommodate a research program of the widest scope in the industry, devoted to the discovery of new aromatic materials and the improvement of manufacturing processes.

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**Alcohol D.C.A.**

**Aldehyde Myrac**—Lasting, lemon-floral with a sweet background.

**Aldehyde Myrmac**—An Orange Aldehyde type, strong and persistent.

**Ambrain**—The concentrated heart of Labdanum, without waxes or gum.

**Amyl Cinnamic Aldehyde** (Flomine Coeur)

**Anisylidene Acetone**

**Arras Aldehyde**—Lively, tart, orange-neroli odor, strong and lasting in soap.

**Benzoin Coeur**

**Benzyl Cinnamate**

**Benzyl Salicylate**

**Bicyclohexanone P**—Floral, woody, sweet Wood-Violet note.

**Cedarwood Oil White**

**Cedrenol**—Sweet, woody, rich—very lasting and stable in soap.

**Cedrenyl Acetate**—Lively, balsamic, sweet and lasting.

**Cedrol**

**Cedrone**

**Citral**

**Citral Dimethyl Acetal**

**Citronellol Coeur**

**Citronellyl Acetate**

**Citronellyl Formate**

**Citronellyl Methyl Acetal**

**Citronellyl Propionate**

**Cycloisoeugenol**

**Dimethyl Benzyl Carbinol**—Flowery, valuable in floral bouquets, especially lilac.

**Dimethyl Benzyl Carbinyl Acetate**—Rich, Roseotto note, very floral, powerful and sweet in soap.

**Dimethyl Octanol**

**Dimethyl Octanyl Acetate**

**Dimethyl Phenyl Ethyl Carbinol**

**Elvinol**—Suggests Linalool and Dimethyl Benzyl Carbinol. Sweet floral odor.

**Elvinyl Acetate**—Bergamot-like. More powerful and lasting. Sweet and refreshing.

**Ethyl Citronellol**

**Eugenyl Methyl Acetal**

**Eugenyl Phenyl Acetate**

**Fructone**—Remarkably powerful fruit character for soap.

**Galbanum Coeur**

**Gelsone**—Refreshing and long lasting Jasmine note.

**Geralex**

**Geraniol Absolute**

**Geraniol C.D.**

**Geraniol Coeur**

**Geranoxide**—Rosy, good in soap.

**Geranoxy Acetaldehyde**

**Geranyl Acetate Coeur**

**Geranyl Butyrate**

**Geranyl Propionate**

**Girella**—Inexpensive fresh spicy character suitable for use directly in soap products.

**Hyacinth Body**—Very powerful nasturtium-hyacinth note.

**Hyacinth Body #3**

**Hydratropic Acetate**

**Hydratropic Alcohol**—Very flowery and lasting in soap.

**Hydratropic Aldehyde**

**Hydratropic Aldehyde Dimethyl Acetal**

**Hydroxycitronellal**

**Ionone Extra C-1**

**Ionone Alpha Methyl**

**Ionone Gamma Methyl #218**

**Ionone Methyl C-60**

**Ionone Methyl Gamma C-60**

**Irene Methyl Gamma**

**Isobutyl Furyl Propionate**

**Iso Eugenol**

**Iso Jasmone**—Very powerful Jasmine body—very lasting in soap.

**Jessemal**—Rich Jasmine note, excellent in soap.

**Labdanum Resin Absolute**

**Lavender Ketone**—Yields a high lavendacious note. Particularly suited for use in white soaps.

**Lilanthol**—Powerful, flowery, muguet. Very stable.

**Linalool B Extra**

**Linalool Coeur**

**Linalyl Acetate 90-92 %**

**Methyl Cinnamate**

**Methyl Diphenyl Ether**—A Rosy, Leafy odor. Lasts well in soap.

**Myrrh Coeur** (Resin Absolute)

**Nerol**

**Oak Moss Absolute**

**Olibanum Coeur** (Resin Absolute)

**Opoponax Resin Absolute**

**Para Cresyl Phenyl Acetate**

**Patchone**—Woody, Patchouli note, exceptionally suited for soap work.

**Petitgrain Absolute**

**Phenyl Acetaldehyde** Dimethyl Acetal

**Phenyl Ethyl Acetate**

**Phenyl Ethyl Alcohol**

**Phenyl Ethyl Benzoate**

**Phenyl Ethyl Cinnamate**

**Phenyl Ethyl Propionate**

**Phenyl Propyl Propionate**

**Pseudo Linalyl Acetate**—Refreshing Bergamot and Lavender-like note; plus a slight Nutmeg suggestion. Our tests with Pseudo Linalyl Acetate in soap have shown that it is much more stable, more powerful and more flowery than Linalyl Acetate.

**Pseudo Linalyl Acetate Technical**—Same as the above product with a wider cut of fractions.

**Styrax Clarified Extra**

**Syringial**—Green, leafy-note with a "melon" suggestion.

**Talia**—A new chemical possessing a green, leafy, powerful, violet-like character.

**Trans Decahydro**

**Betanaphthol**—Useful in Rose and Jasmine floral type odors. It has the faculty of diffusing other odors.

**Vertenex**—Sweet, rich and woody. It blends very well with any Ionone and enriches the odor quality.

# *F*inished soap perfumes



For those soap makers who prefer to use finished perfume oils, we offer the art and experience of our staff of skilled perfumers. Soap perfumery is a highly specialized field, requiring a complete technical knowledge of the intricacies of soap making and its chemistry, plus, of course, the creative flair of the true perfume artist. The van Ameringen-Haebler perfume chemists are ably qualified in these respects, and, in addition, are wise in the ways of marketing . . . thus they can help you in the selection of the right type of perfume for your particular product.

**VAN AMERINGEN - HAEBLER, INC.**

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**HARDNESS AND pH VALUES OF WATER IN THE U.S.\***

Legend: Aggressive Water Areas

State	pH	Hardness
ALASKA	7.2	62
ARIZ.	7.6	254
ARK.	7.1	151
CAL.	7.7	163
COLO.	7.4	101
CONN.	6.7	41
DELA.	6.8	81
FLA.	7.2	196
GA.	6.9	76
ILL.	7.7	292
IND.	7.4	331
IOWA	7.5	520
KAN.	7.8	263
KENT.	7.2	135
LA.	7.4	100
MASS.	6.4	38
MICH.	7.6	281
MINN.	7.6	256
MISS.	7.3	49
MO.	7.8	240
NEB.	7.5	231
NEV.	7.5	179
N.H.	6.9	22
N.J.	7.0	70
N.MEX.	7.4	342
N.Y.	7.3	105
N.DAK.	7.7	306
NORTH	7.2	62
OKLA.	7.7	224
OREG.	6.9	22
PAC.	6.9	22
PEN.	7.1	115
PA.	6.8	118
R.I.	6.7	28
S.DAK.	8.0	504
SC.	6.5	37
TENN.	6.9	81
TEXAS	7.8	219
VIC.	7.0	55
VIRG.	7.1	76
VA.	6.6	115
WASH.	7.2	62
WIS.	7.5	256
WYOM.	7.6	159

**pH Value**

pH Value \_\_\_\_\_  
Hardness As  $\text{CaCO}_3$  \_\_\_\_\_

**pH Values:- Below 7 acid**

7 neutral  
Above 7 alkaline

Hardness :- Below 60 ppm. aggressive water  
61-120 " soft  
121-180 " hard  
Above 180 " very hard

235



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Cetyl Alcohol  
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Spermaceti  
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Capsicum  
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Ginger, N.F. Jamaican  
Red Pepper, Domestic  
Vanilla

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# U. S. Government Specifications

General requirements of U. S. Federal  
Specifications for soaps, cleaners,  
detergents, polishes, insecticides, etc.

## COMPOSITION (P-S-0058)

	Minimum	Maximum
Moisture and matter volatile at 105° C. ....percent	.....	16.0
Sum of free alkali and total matter insoluble in alcohol .....percent	.....	40.0
Matter insoluble in water ..... do	.....	1.0
Rosin ..... do	.....	none
Anhydrous soap .....percent	50.0	.....
Titer of mixed fatty acids prepared from the soap ....	.....	26°C.
Material passing No. 140 sieve .....percent	.....	20.0
Materials retained on No. 12 sieve ..... do	.....	1.5

### Soap, Laundry; Built, Low Titer, Powdered P-S-00578 (interim)

This specification covers a low titer soap built with alkaline salts suitable for use at low temperatures. It shall be of one grade.

The composition of the soap shall conform to the requirements shown in the table.

The percentage of moisture and volatile matter shall be computed, and reported on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 16 per cent.

The soap shall be of a white or light amber color. When specified, the

color of the soap furnished shall conform to that of the accepted sample.

The odor shall not be objectionable in the soap as received or in a solution of the soap in water at 100° F. The soap shall not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

### Insecticides, Aerosol, Low Pressure (12-Ounce Dispenser) O-I-508

Insecticides aerosol, 12-ounce dispenser, covered by this specification are intended to be used against mosquitoes, flies and other small flying insects.

Insecticides aerosol covered by

this specification shall be of the following types:

Type I.—Allethrin and DDT

Type II.—Pyrethrins and DDT

The insecticide shall comprise the following ingredient materials in the specified proportions by weight:

#### TYPE I.

Ingredients	Percent
Allethrin <sup>1</sup> , conforming to spec., minimum	0.6
Dichlorodiphenyltrichloroethane conforming to spec., minimum	2.0
Aromatic petroleum derivative solvent, conforming to spec., minimum	5.0
Deodorized kerosene <sup>1</sup> , conforming to spec., minimum	7.4
Dichlorodifluoromethane, conforming to spec., maximum	42.5
Trichloromonofluoromethane, conforming to spec., maximum	42.5

<sup>1</sup> The deodorized kerosene percentage content shall include the related products from the technical allethrin.

#### TYPE II.

Ingredients	Percent
Pyrethrum extract, conforming to spec., minimum	2.0
Dichlorodiphenyltrichloroethane, conforming to spec., minimum	2.0
Piperonyl butoxide technical, conforming to spec., minimum	1.0
Aromatic petroleum derivative solvent conforming to spec., minimum	5.0
Deodorized kerosene, conforming to spec., minimum	5.0
Dichlorodifluoromethane, conforming to spec., maximum	42.5
Trichloromonofluoromethane, conforming to spec., maximum	42.5

The pyrethrum extract shall contain 20 percent pyrethrins.

The dichlorodiphenyltrichloroethane (DDT) shall conform in all details to grade B as specified with not more than .01 percent trichloromonofluoromethane insoluble material.

Piperonyl butoxide technical shall conform to the requirements.

The aromatic petroleum derivative solvent shall be a purified petroleum product. The product shall be certified by the manufacturer as causing no ir-

**ONLY** the essential requirements of these government specifications have been extracted in this summary. Copies of the complete specifications, including details of packaging, methods of analysis, etc., are available from the Superintendent of Documents, Washington, D. C. The specifications listed are the latest versions as of the date of compilation of this edition of the Blue Book. Readers are cautioned, however, that further changes are being made periodically, and that the latest amended versions of all specifications should be consulted in filling government orders. P-S-536B, the Federal Specification titled "Soap and Soap-Products (Including Synthetic Detergents); Methods of Sampling and Testing," particularly should be consulted.

PIPERONYL BUTOXIDE REQUIREMENTS (O-I 508)	Max.	Min.
alpha [2-(2-butoxyethoxy) ethoxy]- 4, 5-methylenedioxy-2-propyltoluene, percent .....	80	.....
Specific gravity at 25° C. <sup>1</sup> .....	1.05	1.07
Refractive index at 20° C. <sup>2</sup> .....	1.497	1.512

<sup>1</sup> Determined by any suitable method accurate to 0.001.

<sup>2</sup> Determined by an Abbe Refractometer or equivalent instrument at 20° C.

ALLETHRIN REQUIREMENTS (O-I 508)	Requirement (percent by weight)
Allethrin, minimum .....	75.0
Chrysanthemic acid, maximum .....	2.7
Chrysanthemic acid chloride, maximum .....	0.3
Chrysanthemic anhydride, maximum .....	5.0
Dichlorodifluoromethane insoluble, maximum .....	0.5

ritation to human skin. The product shall conform to the following requirements.

Color ..... Not more than 4.0 Union Colorimeter

Specific gravity APL-9-22

Water content ..... None

Flash point (open cup), minimum.....150° F.

Initial boiling point, minimum .....300° F.

Final boiling point.....650° F.

Solvent power for DDT at 74° F.....35 gm./100 ml.

The deodorized kerosene shall meet the following requirements:

Appearance ..... Clear and free from suspended matter.

Color ..... Not less than plus 20 (Saybold chromometer).

Distillation Initial boiling point range ..... not less than 350° F., end point not above 500° F.

Residue from distillation ..... Neutral.

Flash point ..... Not less than 125° F. (Closed cup).

Odor ..... Free from kerosene odor and practically free from all odor

Residue odor ..... None.

Unulfonated residue ..... 96 percent, minimum.

The dichlorodifluoromethane shall conform to the detailed requirements specified in federal specification.

The trichloromonofluoromethane shall conform to the detailed requirements specified in federal specification.

The technical allethrin shall meet the following requirements:

Each container shall contain not less than 12 ounces of the insecticide, propellant and solvent mixture.

Each container when filled with the insecticide, propellant and solvent mixture shall contain not more than 80 ppm. of water.

The finished insecticide, propellant and solvent mixture in type I shall contain not less than 0.6 percent allethrin based on the analysis of the technical allethrin.

The finished insecticide, propellant and solvent mixture shall in type II contain not less than 0.40 percent by weight of pyrethrins.

The finished insecticide, propellant and solvent mixture shall, in type I and

type II, contain not less than 2.0 percent by weight of dichlorodiphenyltrichloroethane (DDT).

The insecticide shall be mixed by a suitable process to produce a homogenous mixture. Dispenser filling shall be carried out at a relative humidity equivalent of not more than 30 percent at 70° F.

#### Soap, Toilet, Liquid and Paste P-S-624b

This specification covers liquid toilet soap and paste (for making liquid toilet soap) for use in dispensers.

Toilet soap shall be of one grade and of the following types: Type I.—Liquid; Type II.—Paste.

The material shall be a clear solution of potash soap in water. The soap shall be produced by the saponification of either vegetable oils or distilled vegetable -oil fatty acids with potash.

The material shall be a firm gel or paste of potash soap in water. The soap shall be produced by the saponification of either vegetable oils or distilled vegetable-oil fatty acids with potash.

The composition of the soap shall conform to the requirements shown in the table. Percentages are by weight.

Type II, paste soap.—The percentage of moisture and of anhydrous soap shall be computed and reported on the basis of the sample as received. The percentages of all other constituents shall be computed and reported on the basis of an assumed moisture content of 40 percent.

The soap shall be mildly perfumed and the odor shall not be objectionable as received, or in hot water. The soap shall not leave any objectionable odor on the skin after washing with a water solution of the soap and rinsing thoroughly with water.

A 15-percent (anhydrous soap content) solution of the material in distilled water, after having been frozen and then warmed to room temperature, shall exhibit no evidence of cloudiness or gelatinization.

The material when tested as specified shall produce a net volume of at least 100 ml.

#### COMPOSITION: P-S-624b

	Type I		Type II	
	Minimum	Maximum	Minimum	Maximum
Moisture (toluene distillation method) .....	.....	.....	.....	40
Anhydrous soap (calculated as potash soap) .....	15	.....	60	.....
Free alkali (calculated as potassium hydroxide, KOH) .....	.....	0.05	.....	0.2
Free acid (calculated as oleic acid) .....	.....	0.1	.....	0.2
Alkaline salts (calculated as potassium carbonate, K <sub>2</sub> CO <sub>3</sub> ) .....	.....	0.2	.....	0.3
Matter insoluble in distilled water .....	.....	0.1	.....	0.2
Matter insoluble in alcohol .....	.....	0.5	.....	1.0
Chloride (calculated as potassium chloride, KCl) .....	.....	0.3	.....	0.5
Sodium compounds (calculated as sodium oxide, Na <sub>2</sub> O).....	.....	0.5	.....	1.0
Sulfates .....	.....	Trace	.....	Trace
Rosin .....	.....	None	.....	None
Sugar .....	.....	None	.....	None
Iodine number (WIJS) of mixed fatty acids derived from the soap .....	7	80	7	80
Titer of mixed fatty acids derived from the soap, °C. ....	15	28	15	28
Acid number of mixed fatty acids derived from the soap .....	215	270	215	270

# INGREDIENT MATERIALS (O-I-551a)

	Per Cent by Weight	
	Minimum	Maximum
Type I:		
Pyrethrins .....	0.08	0.12
Piperonyl butoxide, technical .....	0.75	0.85
DDT .....	0.95	1.05
Odor neutralizer .....	0.04	0.06
Deodorized kerosene .....	To make 100 per cent	
Type II:		
Allethrin .....	0.15	0.18
Piperonyl butoxide, technical .....	0.75	0.85
DDT .....	0.95	1.05
Odor neutralizer .....	0.04	0.06
Deodorized kerosene .....	To make 100 per cent	
Type III:		
Pyrethrins .....	0.08	0.12
Piperonyl butoxide, technical .....	0.75	0.85
Odor neutralizer .....	0.04	0.06
Deodorized kerosene .....	To make 100 per cent	

## DEODORIZED KEROSENE REQUIREMENTS (O-I-551a)

<b>Distillation range:</b>		
Initial boiling point, minimum, °F .....	350	
End point, maximum, °F .....	500	
Flash point, minimum, °F .....	125	
Color .....	Not more than extremely slight discoloration 25 Saybolt minimum	
Residual odor .....	None	
Unsulphonated residue, per cent, minimum .....	96	

### Insecticides, Liquid, Space Spray O-I-551a

The insecticides covered by this specification are designed to spray in enclosed spaces either directly on flies and mosquitoes or into air in which they are flying.

The insecticides shall be of but one grade, and the following types (in deodorized kerosene), as specified:

Type I.—Pyrethrins and DDT.

Type II.—Allethrin and DDT.

Type III.—Pyrethrins.

The insecticide shall comprise the ingredient materials in the specified proportions in the accompanying table.

When specified in the contract or purchase order, other synergists may be substituted for piperonyl butoxide.

Pyrethrum extract shall dissolve in deodorized kerosene to form a clear solution. The pyrethrin content shall be determined as specified.

Piperonyl butoxide shall be of the technical grade containing not less than 80 per cent alpha-[2-(2-butoxyethoxy)ethoxy]-4, 5-methylenedioxy-2-propyl-toluene, also named (butyl carbitol) 6-propyl piperonyl ether. It shall conform to the following requirements:

	Min.	Max.
Specific gravity, 25°/25°C. 1.05	1.05	1.07
Refractive index at 20°C. 1.497	1.497	1.512
The piperonyl butoxide content of the finished insecticide shall be determined as specified.		

DDT shall conform to the requirements for grade B of Federal Specification. The finished insecticide shall be tested as specified and shall contain 5 mg.  $\pm$  0.25 organic chlorine per gram of solution.

The technical grade allethrin shall contain not less than 75 per cent by weight of allethrin nor more than 8.0 per cent total free acidity calculated as chrysanthemum monocarboxylic acid. The finished insecticide shall contain not less than 0.15 per cent by weight of allethrin based on analysis of technical grade and weight records.

The odor neutralizer shall be of a grade in commercial use and shall impart a pleasing or neutral odor to the finished insecticide. Only those odor neutralizers which have been approved at time of invitation for bids will be permitted.

Deodorized kerosene shall be free from kerosene odor and practically free from all odor, shall be clear and free from suspended matter and shall conform to the requirements in the accompanying table.

### Insecticide, 75 Percent DDT Water-Dispersible Powder O-I-568

This specification covers one grade of insecticide, water-dispersible powder, 75 per cent dichlorodiphenyltrichloroethane (DDT).

It shall be prepared from dichlorodiphenyltrichloroethane (DDT) together with such biologically inert modifying and conditioning agents as are needed to meet the requirements.

Dichlorodiphenyltrichloroethane (DDT) shall conform to the requirements for grade B of Federal Specification.

The finished insecticide shall contain not less than 36.0 per cent organic chlorine when tested as specified, shall be free flowing, of a light color such as white, cream, or light gray, and shall be readily wettable with water to provide dispersions suitable for use as residual effect insecticide sprays.

Any foam built up in the preparation of test suspensions shall not have such copiousness, stability, or other properties as would prevent the completion of the tests.

The surface-mean particle diameter of the insecticide powder shall be not greater than 5.0 microns.

Not less than 98 per cent of the insecticide powder shall pass through a 74-micron (U. S. Standard No. 200) sieve, and not less than 100.0 per cent shall pass through a 1,000-micron (U. S. Standard No. 18) sieve.

Not less than 95 per cent of the insecticide powder incorporated in a suspension shall pass through a 250-micron (U. S. Standard No. 60) sieve.

A suspension prepared and tested as specified shall have a pH value not lower than 5.0 and not higher than 10.0. If pH is 8.0 or above, not more than 10.0 ml. of half normal by hydrochloric acid shall be required to neutralize the alkalinity of a 20.0-gram sample when titrated.

The product shall be clean and uniform and free from any defects which may impair its utility.

### Insecticide Powder, Dusting O-I-578

Insecticide dusting powder covered by this specification shall be of but one grade as specified and shall contain only the material specified.

The finished insecticide powder shall be of free-flowing material devoid of lumps, of such fineness that not less than 99 per cent shall pass the U. S. Standard No. 80 (177-micron) sieve (dry test).

The finished insecticide powder shall have a surface mean particle diameter of not more than 5 microns.

It shall consist of 10 per cent by weight of active ingredient and the remainder of diluent. When specified, 0.1 per cent by weight of the coloring agent 1-(2, 4 dinitrophenylazo)-2 naphthol shall be added.

The active ingredient shall be technical-grade dichlorodiphenyltrichloroethane, hereinafter referred to as DDT.

Insecticide powder shall contain not less than 9.5 nor more than 10.5 per cent by weight of DDT.

The melting point of the DDT which has been extracted from the insecticide powder in the manner described, shall be not less than 100°C.

The melting point of a mixture of equal weights of the extracted DDT product and pure recrystallized DDT shall be not less than 100°C.

When specified in the contract or order, the coloring agent shall be a



coal-tar dyestuff which will yield a flesh color to the finished insecticide. The dyestuff shall be 1-(2,4-dinitrophenylazo)-2-naphthol which shall be certified by the Food and Drug Administration as meeting specifications for Drug and Cosmetic Orange No. 17 of Food and Drug Administration Service and Regulatory Announcement No. 3 "Coal Tar Regulations" of September, 1940. The finished insecticide shall yield no color in the water extract.

The diluent shall be either talc or pyrophyllite.

The talc shall be of the laminar type and of such degree of fineness that not less than 90 per cent will pass a U. S. Standard No. 325 (44-micron) sieve (wet test) and not less than 99 per cent will pass a U. S. Standard No. 100 (149-micron) sieve (dry test).

The pyrophyllite shall be of the same degree of fineness as specified for talc.

No more than 1.5 per cent by weight of the DDT present in the finished insecticide powder shall be decomposed after 1 hour.

The manufacturer shall, by a blending operation just prior to the filling of cans, establish uniform batches of not less than 2,000 pounds. These batches shall be given a control or batch number and shall be numbered serially.

#### **Cleaning Compound, Synthetic Detergent, Non-Abrasive, All Purpose P-C-431a**

This specification covers general maintenance commercial cleaning compounds containing synthetic detergents.

The compound covered by this specification shall be of one grade only, and of the following type:

Type I.—Powder or flake.

Type II.—Liquid.

Type III.—Paste.

The compound shall be a uniform homogenous product, free from any objectionable odor, and shall contain synthetic organic detergents. It shall contain no abrasives or fatty acid soaps and shall not be irritating to the skin. It shall be satisfactory for use in floor and wall maintenance cleaning operations with soft or hard water.

The compound shall be stable and not lose effectiveness or otherwise deteriorate when stored in a closed container at room temperature.

The pH value of a 1.0 percent (by weight) distilled water solution of the compound shall be not less than 5.5 nor more than 9.5.

The compound shall be completely soluble in distilled water.

The compound shall be free-rinsing.

*Types I and III.*—A solution of 5 grams of compound in a liter of synthetic hard water shall exhibit a cleaning efficiency of not less than 80 percent.

*Type II.*—A solution of two percent by volume (2 volumes of compound to 98 volumes of synthetic hard water) shall exhibit a cleaning efficiency of not less than 80 percent.

A 0.2 percent (by weight) solu-

tion of the compound shall not cause greater than one-half the loss of 60 degree specular gloss of painted surfaces caused by a 0.2 percent solution of trisodium phosphate.

#### **Insecticide; Liquid (Fly-Spray) O-I-541a**

This spray is intended primarily for use against flies but if properly and thoroughly applied directly to the insects, it will control mosquitoes, bedbugs, ants, fleas, and clothes moth larvae.

The manufacturer is permitted latitude in the selection of raw materials and processes of manufacture to meet the requirements of this specification.

The liquid insecticide shall not cause irritation to man nor be poisonous to man when applied in the usual manner in the destruction of house flies, shall have no greater detrimental action upon metal or paint (paint, enamel, varnish, lacquer, etc.) surfaces than the specified solvent, and shall have no objectionable odor.

It shall be formulated from a petroleum distillate base, free from kerosene odor and practically free from all odor, and shall be clear and free from suspended matter and shall contain other ingredients to make its performance equal to or to exceed the performance requirements.

The liquid insecticide shall meet the following requirements:

Initial boiling point.....Not below 350°F.

End point .....Not above 350°F.

The flash point shall be not less than 125°F. (closed cup).

When tested in accordance with specification, no residual odor shall be present.

It shall meet staining properties and corrosion tests specified.

The liquid insecticide shall be not more than 2 percentage points (units of difference between the percentage kill or knock-down by the "comparison" insecticide and the percentage kill or knock-down by the unknown) below the "comparison" insecticide in "average percentage knock-down" and shall be 16 percentage points or more above the "comparison" insecticide in "average percentage kill" when tested in accordance with the method specified.

#### **Insecticide, Sulfur, Dusting Powder O-I-583a**

Insecticide, sulfur, dusting powder covered by this specification is suitable for the control of mites, insects, and fungus diseases on ornamental shrubs and other plants.

The insecticide shall be of but one type and one grade.

Insecticide, sulfur, dusting powder shall be a finely ground free flowing powder containing not less than 92 percent sulfur by weight. Not more than 8 percent shall consist of conditioning agents and inert material.

The surface-mean particle di-

ameter of the finished insecticide shall not be greater than 12 microns.

Not less than 98 percent of the finished insecticide powder shall pass through a No. 325 U. S. Standard sieve (44 micron) by the wet test.

#### **Insecticide-Concentrate; Liquid Water-Emulsifying (DDT-Nonexplosive Solvent— Emulsifying Agent) O-I-558**

Liquid insecticide-concentrate covered by this specification shall be of one grade as specified.

It shall contain at least 25.0 grams of DDT conforming to the requirements for grade B of Federal Specification per 100 milliliters, a suitable emulsifier in such concentration as will enable the concentrate to meet the requirements of this specification, and a suitable solvent.

When specified in invitation for bids, each bidder shall submit a 1-gallon sample of the insecticide-concentrate which he proposes to furnish, for the purpose of determining compliance with the requirements of this specification.

The insecticide-concentrate shall be clear, homogeneous, and free from particles of undissolved DDT crystals or foreign matter. The appearance of the concentrate shall not be affected when tested as specified.

It shall contain a minimum of 120 milligrams of chlorine per milliliter, when tested as described.

When tested as described, the emulsions formed shall show not more than 5 milliliters of separation when tested at 80°F., nor more than 10 milliliters of separation when tested at 120°F., 30 minutes after formation and after reformation.

The flash point of the finished concentrate shall be not below 140°F.

There shall be no residual stain when the insecticide-concentrate is tested.

There shall be no more than a slight, mild residual odor when tested.

The solvent shall have an initial point not less than 300°F., and an end point not higher than 550°F.

The insecticide-concentrate shall cause no more than a slight discoloration of mild steel strips and shall cause no crazing or softening of strips of polymethyl methacrylate, when tested as described.

#### **Rodenticide; Fumigant Dust 42 Percent Calcium Cyanide Dust) O-R-501**

Fumigant dust rodenticide covered by this specification shall be of one grade. A technical grade of fumigant dust rodenticide shall be essentially produced in accordance with best commercial practice.

The chemical and physical properties shall conform to the following requirements: Calcium cyanide—42.0 per



cent, min.; Particle size—98.0 per cent shall pass a 100-mesh U. S. standard screen; Inert material—58.0 per cent, maximum.

**Compound: Cleaning, Soap-Abrasive-Type  
(For Painted Surfaces)  
P-C-565**

Compound, cleaning, shall be furnished in one type and one grade.

The cleaning compound shall have no objectionable odor and shall not be harmful to the hands.

As received, it shall be a uniform soft paste and shall meet the following requirements:

Matter volatile, at 105°C. shall not exceed 65 per cent, by weight.

It shall contain not more than 0.1 per cent, by weight, free alkali calculated as NaOH and shall contain not more than 0.5 per cent, by weight, free acid calculated as oleic acid.

Alkaline salts, calculated as  $\text{Na}_2\text{CO}_3$ , shall not exceed 5 per cent, by weight.

Insoluble siliceous matter shall be not less than 25 per cent nor more than 50 per cent, by weight. All of the insoluble siliceous matter shall pass through a No. 80 sieve; and not more than 15 per cent of the insoluble siliceous matter shall be retained on a No. 200 sieve.

Anhydrous soap shall be not less than 3.5 per cent, by weight.

**Compound: Grease-Cleaning,  
Solvent-Emulsion-Type  
P-C-576**

Grease-cleaning compound of the solvent-emulsion-type, shall be furnished in one grade and in the following types: Type I—Nonphenolic; Type II—Phenolic. Both shall be a uniform liquid.

Detailed requirements for type I are: the flash point shall be not less than 200°F. (open cup); the compound shall have a neutralization number of not more than 8 (mg. of KOH to neutralize 1 gm. of compound); shall have no free alkali; the pour point shall be not more than 35°F.; the loss in weight shall be not more than 10 per cent after a 24-hour period; and shall be free from phenols.

Type I shall meet stability of emulsion test specified and the test for solubility in kerosene and in water.

Detailed requirements for Type II are: the flash point shall be not less than 200°F. (open cup); shall have a neutralization number of not more than 8 (mg. of KOH to neutralize 1 gm. of compound); shall have no free alkali; the pour point shall be not more than 35°F.; the loss in weight shall be not more than 10 per cent after a 24-hour period; and the material shall contain not less than 15 per cent nor more than 25 per cent phenols, by volume and shall pass the phenol ( $\text{C}_6\text{H}_5\text{OH}$ ) limitation test.

Type II shall meet stability of emulsion and solubility in kerosene and in water tests.

**Detergent, Hand: Paste and Powder,  
Mechanic's P-D-00221b (Navy Ships)  
(Interim)**

This specification covers paste and powder hand detergents for removing oil, grease and other occupational soils.

The detergents shall be of the following types: Type I—Hand grit-paste detergent. Type II—Hand scouring powder with mineral abrasive. Type III—Hand scouring power with vegetable abrasive.

Type I detergent shall be a uniform mixture of thoroughly saponified soap and mineral abrasives in paste form.

Type II detergent shall be a uniform, free-flowing, non-stratifying mixture of thoroughly saponified soap and mineral abrasives in powder form.

Type III detergent shall be a uniform, free-flowing, non-stratifying mixture of clean corn meal, corn cob meal, wood flour meal, or any combination thereof, thoroughly saponified soap and lanolin in powder form. The mixture shall contain no rosin, sugar, pine oil, nor mineral abrasives, such as lava, pumice, sand or quartz.

Hand detergents shall be mildly perfumed so as to produce a pleasant odor.

The hand detergents shall conform in composition to the accompanying table.

The hand detergents shall produce not less than 100 milliliters foam.

A solution of types II and III prepared as specified shall have a pH of between 9.0 and 10.0. The addition of 2 milliliters of 0.1N hydrochloric acid to this solution shall not reduce the pH to below 9.0 at 25°C.

**Detergents, Special: (for Aluminum-ware, Dishwashing-Machines, and Manual Cleaning)  
P-D-236**

Detergents for aluminumware shall be of the following types and classes: Type I—Detergent for use in mechanical dishwashing machines. Type II — Detergent for manual cleaning. Class A. Nonabrasive cleaner. Class B. Abrasive cleaner.

Type I shall be suitable for use in mechanical dishwashing machines and shall be substantially uniform in appearance throughout. It shall be free from objectionable odor, and shall dissolve readily in tepid water. Cleaner may be supplied in either powder, granule, chip, or liquid form.

Type II, Class A shall be suitable for any type of manual washing where abrasiveness is not desired, and shall be substantially uniform in appearance throughout. It shall be free from objectionable odor, and shall dissolve readily in tepid water. Cleaner may be supplied in either powder, granule, chip, or liquid form.

Type II, Class B shall be suitable for any use requiring a manual cleaner where soil adheres too tenaciously for nonabrasive cleaners. It may be supplied in the form of a liquid, a solid, a paste, or a combination of any two of the above. Combinations of metal wools and soaps may be supplied. The cleaner shall be free from objectionable odor and from poisonous or irritant chemicals.

Type I shall conform to the following detail requirements: When tested, the weight of the precipitate obtained shall be less than 20 mg. for 250 ml. of solution; no foam or suds shall be detected; the detergent solu-

COMPOSITION: P-O-00221b

Characteristics	Percent by weight					
	Type I		Type II		Type III	
	Min.	Max.	Min.	Max.	Min.	Max.
Matter volatile at 105° ± 2°C. ....	55.0	.....	5.0	.....	12.0	.....
Alkaline salts (calculated as sodium carbonate) .....	3.0	2.0	5.0	.....	7.7	.....
Free alkali (calculated as sodium hydroxide) .....	0.1	.....	0.1	.....	0.1	.....
Free acid (calculated as oleic acid) .....	0.5	.....	0.5	.....	0.5	.....
Anhydrous soda soap .....	8.0	.....	17.0	.....	24.5	.....
Lanolin .....	.....	.....	.....	.....	3.0	.....
Matter insoluble in water .....	25.0	50.0	60.0	76.0	45.0	55.0
Fineness of insoluble siliceous matter:						
Percent retained on:						
No. 40 sieve .....	.....	1.0	.....	1.0	.....	.....
No. 60 sieve .....	10.0	20.0	.....	5.0	.....	.....
No. 80 sieve .....	30.0	45.0	.....	.....	.....	.....
No. 100 sieve .....	35.0	55.0	.....	30.0	.....	.....
No. 200 sieve .....	60.0	.....	.....	60.0	.....	.....
Fineness of finished detergent:						
Percent retained on:						
No. 20 sieve <sup>1</sup> .....	.....	.....	.....	.....	.....	10.0
No. 100 sieve .....	.....	.....	.....	.....	90.0	.....
Rosin .....	.....	.....	.....	5.0	.....	none
Sugar .....	.....	none	.....	none	.....	none

<sup>1</sup> Particles shall be soft and friable, not solid or hard.

tion shall be without visible action on bare or anodic oxide-coated aluminum alloy; a suds which is stable for not less than 5 minutes shall be formed; the detergent solution shall have an initial pH of not less than 10.0 and shall have a pH of not less than 9.0 after the addition of the specified amount of hydrochloric acid solution; the material shall clean satisfactorily, the relative cost of the detergent shall be determined from the product of the delivered price per pound of the detergent and the number of pounds of the detergent required to treat 1,000 gallons of water containing 10 grains (171 p.p.m.) per gallon of hardness, calculated as  $\text{CaCO}_3$ .

Type II, Class A, shall conform to the following requirements: The turbidity of the cleaner solution shall conform to the test described. When tested the cleaner solution shall be without visible action on bare or anodic oxide-coated aluminum alloy; a suds which is stable for not less than 5 minutes shall be formed; the pH of a 1-per cent solution by weight of the cleaner in distilled water shall not exceed 10.5; the material shall clean satisfactorily; the relative cost of the cleaner shall be determined from the product of the delivered price per pound of the cleaner and the number of pounds of the cleaner required to treat 1,000 gallons of water which contains 10 grains (171 p.p.m.) per gallon of hardness, calculated as  $\text{CaCO}_3$ .

Type II, Class B, shall conform to the following detail requirements: When tested the cleaner shall produce no undesirable scratching, and shall be without visible action on bare or anodic oxide-coated aluminum alloy; when tested the cleaner shall be removed completely from a glass plate and shall clean satisfactorily.

#### Soap: Chip P-S-566b

This specification covers a chip soap suitable for washing, and cleaning and scouring purposes with soft water, when the presence of alkaline salts is not desirable. It shall be of but one type.

Chip soap shall be a soap in chip form made from soda and fats, or fatty acids, without rosin, as free as possible from water and all substances other than true soap.

The composition shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed, and reported by the testing laboratory, on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 10 per cent.

The soap shall have a light uniform color.

The odor shall not be objectionable in the soap received, or in a hot water solution. The soap shall not leave an objectionable odor on objects after

washing with a water solution of the soap and rinsing thoroughly with hot water.

#### Polish: Automobile, Liquid P-P-546

Polish, automobile, liquid, shall be furnished in one type and one grade.

The liquid automobile polish shall be suitable for use on lacquer, baked enamel, and synthetic enamel finishes and shall have no objectionable odor.

It shall be a stable aqueous emulsion containing a suitable abrasive in suspension. The polish shall be a free flowing fluid that can readily be applied with a cotton cloth and shall spread easily.

It shall meet the following requirements: nonvolatile matter (total solids) shall be not less than 25 per cent, by weight.

Ash content (based on nonvolatile matter shall be not less than 35 per cent nor more than 50 per cent, by weight; Free caustic alkali—none; the neutralization number of the polish shall be not more than 5; all of the material shall pass through a No. 200 sieve, and not less than 95 per cent (based on ash content) shall pass through a No. 325 sieve; the volatile matter shall be essentially water.

#### Powder: Scouring (for) Floors P-P-591a

Scouring powder for floors shall be of the following types: Type I.—For fine marble floors. Type II.—For tile or ceramic and terrazzo floors. Type III.—Soap scouring compound.

Scouring powder for floors shall be white or light gray unscented powder for uniform composition.

Type I, for fine marble floors, matter volatile at  $105^\circ \pm 2^\circ\text{C}$ . shall not exceed 10.0 per cent; the sum of sodium carbonate ( $\text{Na}_2\text{CO}_3$ ) and anhydrous soda soap and/or active anhydrous, salt-free, synthetic detergent shall not exceed 7.0 per cent nor be less than 2.0 per cent; free alkali, calculated as sodium hydroxide ( $\text{NaOH}$ ), shall not exceed 0.1 per cent; insoluble siliceous material shall be not less than 85.0 per cent nor more than 95.0 per cent; all of the insoluble siliceous material shall pass through a No. 100 sieve, and the residue retained on a No. 200 sieve shall not exceed 5.0 per cent; the material shall not scratch or discolor marble.

Type II, for tile or ceramic and terrazzo floors; matter volatile at  $105^\circ \pm 2^\circ\text{C}$ . shall not exceed 10.0 per cent;

the sum of sodium carbonate ( $\text{Na}_2\text{CO}_3$ ) and anhydrous soda soap and/or active anhydrous, salt-free, synthetic detergent shall be not less than 2.0 per cent; free alkali, calculated as sodium hydroxide ( $\text{NaOH}$ ), shall not exceed 0.1 per cent; insoluble siliceous material shall be not less than 80.0 per cent nor more than 95.0 per cent; the insoluble siliceous material shall not yield more than 1.0 per cent of residue retained on a No. 60 sieve and not more than 10.0 per cent of residue retained on a No. 80 sieve.

Type III, soap scouring compound, matter volatile at  $150^\circ \pm 2^\circ\text{C}$ . shall not exceed 6.0 per cent; carbonated alkali, calculated as sodium carbonate ( $\text{Na}_2\text{CO}_3$ ), shall be not less than 6.0 per cent nor more than 20.0 per cent; free alkali, calculated as sodium hydroxide ( $\text{NaOH}$ ), shall not exceed 0.1 per cent; anhydrous soda soap and/or active anhydrous, saltfree, synthetic detergent shall not be less than 3.0 per cent nor more than 10.0 per cent; insoluble siliceous material shall be not less than 60.0 per cent nor more than 90.0 per cent; the insoluble siliceous material shall yield not more than 1.0 per cent of residue retained on a No. 60 sieve and not more than 10.0 per cent of residue retained on a No. 80 sieve.

#### Glass Cleaner, Liquid P-G-406

Liquid glass cleaner covered by this specification is intended primarily for use on windshields, windows and other glass surfaces and is not intended for use on transparent plastics. It shall be of but one grade and of the following types: Type I.—Regular; Type II.—Antifogging.

The component raw materials in the compound shall be suitable for the purpose intended and as specified herein-after, and shall not include dyes, waxes, perfumes, ammonia, or inorganic alkalies.

It shall be stable under ordinary conditions of storage and handling and shall show no tendency to decompose, emulsify, or separate into layers at normal temperatures.

It shall be nonirritating to the skin and shall contain no toxic ingredients other than denaturants for alcohol.

The odor shall be no more objectionable than the comparison solution specified.

The flash point of the liquid shall be not less than  $27^\circ\text{C}$ . ( $80^\circ\text{F}$ .).

#### COMPOSITION—P-S-566b

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at $150^\circ\text{C}$ .	10.0	.....
Sum of free alkali, total matter insoluble in alcohol, and sodium chloride	6.0	.....
Free alkali, calculated as sodium hydroxide ( $\text{NaOH}$ )	0.2	.....
Matter insoluble in water	1.0	.....
Anhydrous soap	.....	85.0
Titer of the mixed fatty acids prepared from the soap	.....	$39^\circ\text{C}$ .
Rosin	None	.....

## COMPOSITION—P-S-563

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 105°C. ....		16.0
Free alkali, calculated as sodium hydroxide (NaOH) .....		0.2
Alkaline salts, calculated as sodium carbonate ( $\text{Na}_2\text{CO}_3$ ) .....	21	
Matter insoluble in water .....		1.0
Chloride (calculated as sodium chloride) .....		0.5
Anhydrous soap .....	56	
Titer of the mixed fatty acids prepared from the soap.....	39°C.	
Residue retained on a No. 12 sieve .....		1.5
Passing through a No. 140 sieve .....		18.0
Rosin .....		None
Unsaponifiable matter .....		1.0
Starch .....		None

The pH value of the liquid shall be not less than 7.0 nor more than 9.0 at 25°C.

The liquid shall not attack or produce more discoloration of aluminum alloys than that caused by the comparison solution.

The liquid shall not produce more softening, discoloration, or change in the surface appearance of enamel or lacquer finish than the comparison solution.

When the compound is properly applied to glass surfaces and polished, it shall leave the surface free from dust, grime, and ordinary soil materials, and shall produce an appearance equal to or better than that produced by the comparison solution.

The residue on evaporation of 50 milliliters shall not exceed the following requirements:

	Residue in grams
Type I .....	0.005
Type II .....	0.005

Antifogging (type II) shall produce antifogging characteristics on glass.

**Soap, Grit (Cake)**  
**P-S-571b**

Grit cake soap covered by this specification shall be of the following types: Type I.—For fine work (such as required for cleaning glass and enamel ware). Type II.—For rough work (such as required for scouring and scrubbing purposes).

Grit soap shall be made from high quality soap and abrasives, uniformly mixed. Small amounts of other ingredients may be added to improve the quality of the soap.

Each cake of grit soap shall weigh not less than 9 ounces nor more than 10 ounces.

Grit soap, type I, shall be white in color. Grit soap, type II, shall be gray or tan.

The composition of the soap shall conform to the requirements shown in the accompanying tables.

The percentage of moisture and matter volatile at 105 ± 2°C. shall be computed and reported as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 4.0 per cent, in the case of type I and 5.0 per cent in the case of type II.

The material insoluble in water shall consist of not less than 85 per cent ground feldspar and shall be sufficiently fine that, when the soap and other soluble matter are extracted from the cake by digestion with water, 99 per cent of the material insoluble in water shall pass through a No. 100 sieve, and in the case of type I, 95 per cent shall pass through a No. 200 sieve.

Grit soap, type I, shall not scratch window glass or vitreous enameled surfaces.

The average loss in weight of the soap on immersion in water shall be not more than 10 per cent for type I and not more than 5 per cent for type II. Specimen cakes so tested shall show absence of crumbling, severe cracking, or other disintegration effects which indicate unsatisfactory serviceability of the product.

**Soap, Built, High-Titer,  
Powdered**  
**P-S-563**

This specification covers a powdered, high-titer, built soap that is suitable for high-temperature laundering of all types of wearing apparel and linens except silk and woolsens.

The composition of the soap shall

conform to the requirements shown in the accompanying table.

The soap shall be a uniform mixture of soap and alkalis in powdered form. It shall be readily soluble in hot water and shall have a light uniform color.

The odor shall not be objectionable in the soap as received, or in a hot-water solution. The soap shall not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

**Waterless Hand Cleaner**  
**P-H-31 (Navy Ships)**  
**(Interim)**

This specification covers hand cleaner for office or shop use.

Hand cleaner shall be of the following types:

Type I.—Duplicating ink remover.

Type II.—Grease and grime remover.

Hand cleaners shall be smooth, stable homogeneous materials which shall remain smooth and show no separation, rancidity or loss of effectiveness after (a) 16 hours of exposure (in closed issue containers) to 60° ± 2°C. then dropping to room temperature (25° ± 5°C.) and (b) 16 hours of exposure (in closed issue container) to minus 35° ± 2°C. and rising to room temperature.

The pH value at 25° ± 5°C. of a 5 per cent by weight, aqueous solution of the cleaner shall fall within the values of 6.0 and 9.8.

The acid value of the cleaner shall be not more than 25.

The cleaner shall contain no free alkali and shall contain not more than 1.0 per cent by weight of alkaline salts calculated as  $\text{Na}_2\text{CO}_3$ .

The cleaner shall be free of grit and abrasives.

Cleaners shall be free of chlorinated solvents.

Use of the cleaner shall not leave

## COMPOSITION OF TYPE I GRIT SOAP (P-S-571b)

Ingredient	Per Cent by Weight	
	Maximum	Minimum
Moisture and matter volatile at 105° ± 2°C. ....		5.0
Anhydrous soap .....	6.0	10.0
Alkaline salts (calculated as $\text{Na}_2\text{CO}_3$ ) .....		1.5
Free alkali (calculated as NaOH) .....		0.1
Free acid (calculated as oleic acid) .....		5.0
Sugar or other foreign matter .....	None	None
Matter insoluble in water .....	Remainder	Remainder

## COMPOSITION OF TYPE II GRIT SOAP (P-S-571b)

Ingredient	Per Cent by Weight	
	Maximum	Minimum
Moisture and matter volatile at 105° ± 2°C. ....		6.0
Anhydrous soap .....	8.0	12.0
Alkaline salts (calculated as $\text{Na}_2\text{CO}_3$ ) .....		4.0
Free alkali (calculated as NaOH) .....		0.1
Free acid (calculated as oleic acid) .....		0.5
Sugar or other foreign matter .....	None	None
Matter insoluble in water .....	Remainder	Remainder



# SOAP; GRIT, HAND, CAKE (P-S-576a)

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 105°C. ....	25.0	.....
Total alkalinity of matter insoluble in alcohol (alkaline salts), calculated as sodium carbonate ( $\text{Na}_2\text{CO}_3$ ) .....	1.0	.....
Free alkali, calculated as sodium hydroxide ( $\text{NaOH}$ ) .....	.1	.....
Insoluble siliceous material .....	35.0	25.0
Insoluble siliceous material retained on a No. 100 sieve....	2.0	.....
Insoluble siliceous material retained on a No. 200 sieve....	10.0	.....
Rosin .....	5.0	.....
Sugar and foreign matter .....	None	.....
Anhydrous soap .....	.....	35.0

a sticky or otherwise undesirable coating on the skin.

Cleaner shall be free from objectionable odor and shall not leave an objectionable odor on the skin. The cleaner and any ingredient used in formulating the cleaner shall be free of odors characteristic of kerosene and similar petroleum products.

Type I hand cleaner shall be a smooth oil-in-water type emulsion which shall remove duplicating ink from the hands. The cleaner shall be mildly and pleasantly perfumed.

Type II hand cleaner shall be a smooth water-in-oil type emulsion which shall effectively remove grease type of soil from the hands.

When tested as specified the flash point of type II shall be not lower than 40°C. (104°F.).

## Soap: Grit, Hand, Cake P-S-576a

Hand grit soap shall be a cake soap containing clean, finely divided insoluble siliceous matter, as free as possible from water, uncolored, mildly perfumed unless otherwise specified, and well compressed in firm, smooth cakes. It shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 25 per cent.

Unless otherwise specified, each cake shall weigh not less than 8 ounces, nor more than 16 ounces.

## Soaps, Liquids and Paste (Automobile, Floor, and General Cleaning) P-S-598b

This specification covers liquid and paste type soaps suitable for use in general cleaning with soft water.

Soap covered by this specification shall be of the following types and classes:

- Type I.—Liquid.
- Type II.—Paste.
- Class A.
- Class B.

Type I shall be uniform liquid soap made solely from whole neutral vegetable oils or distilled vegetable-oil fatty acids and potash.

Type II shall be a uniform gel or paste soap made solely from whole neutral vegetable oils or distilled vegetable-oil fatty acids and potash, and shall conform to the requirements set forth in this section.

The composition shall conform to the requirements in the accompanying table.

The percentage of moisture (type II only) shall be computed and reported. The percentage of all other constituents shall be calculated and reported on an assumed moisture content of 50 per cent.

Type I, liquid soap shall be soluble in soft water and when diluted with water shall act as a cleaner. The flash point shall be above its boiling point. It shall not contain any solvents or oils that will damage floor surfaces. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not

leave an objectionable odor on surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water.

Type II shall be a uniform translucent firm gel or paste of a yellowish-white to brownish-yellow color. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water.

Type II shall dissolve readily to give a 0.15- to 0.2-per cent solution, using distilled water at 15.5° to 20°C. (60° to 68°F.). The solution so prepared shall yield at least 150 milliliters of suds.

Type II in soft water shall act as a cleaner and shall not damage surfaces on which it is used.

The material of each type shall not become rancid or otherwise deteriorate when kept in a closed container.

## Soap: Low-Titer (for Low- Temperature Washing) P-S-600a

Type I.—Bar form.

Type II.—Other forms:

Class A.—Granular.

Class B.—Powdered

Class C.—Flake.

The soap shall have a uniform color. The odor shall not be objectionable in the soap as received or in a solution of the soap in water at 125° to 130°F. The material shall not leave an objectionable odor on objects after wash-

## COMPOSITION (P-S-598B)

	Type I		Type II			
	Class A		Class A		Class B	
	Mini- mum Per Cent	Maxi- mum Per Cent	Mini- mum Per Cent	Maxi- mum Per Cent	Mini- mum Per Cent	Maxi- mum Per Cent
Moisture (toluene distillation method) .....	.....	.....	.....	55	.....	60
Total matter insoluble in alcohol.....	.....	0.5	.....	1.0	.....	1.0
Free alkali, calculated as potassium hydroxide ( $\text{KOH}$ ) .....	.....	.05	.....	.1	.....	.1
Free acid, calculated as oleic acid.....	.....	.1	.....	.2	.....	.2
Alkaline salts, calculated as potassium carbonate ( $\text{K}_2\text{CO}_3$ ) .....	.....	.1	.....	.2	.....	.2
Matter insoluble in distilled water....	.....	.1	.....	.2	.....	.2
Chloride, calculated as potassium chloride ( $\text{KCl}$ ) .....	.....	.3	.....	.5	.....	.5
Unsaponified and unsaponifiable matter .....	.....	.4	.....	.8	.....	8
Anhydrous soap, calculated as potash soap .....	20	.....	43	.....	43	.....
Total sodium compounds, calculated as $\text{Na}_2\text{O}$ .....	.....	.2	.....	.5	.....	.5
Glycerol .....	.....	1.8	.....	4.0	3	.....
Rosin .....	.....	None	.....	None	.....	None
Sugar .....	.....	None	.....	None	.....	None
Iodine number (WIJS) of mixed fatty acids derived from the soap....	80	150	80	150	100	150
Acid number of mixed fatty acids derived from the soap .....	195	205	195	205	195	205



# QUANTITATIVE REQUIREMENTS (P-S-600a)

	Type I		Type II	
	Maximum Per Cent	Minimum Per Cent	Maximum Per Cent	Minimum Per Cent
Matter volatile at 105° ± 2°C. ....	32.0	.....	7.0	.....
Sum of free alkali or free acid, total matter insoluble in alcohol, and sodium chloride .....	2.0	.....	9.0	.....
Water soluble sodium silicate .....	.....	.....	.....	4.0
Free alkali, calculated as sodium hy- droxide (NaOH) .....	0.1	.....	0.4	.....
Free acid, calculated as oleic acid .....	0.1	.....	None	.....
Matter insoluble in water .....	0.5	.....	1.5	.....
Rosin .....	None	.....	None	.....
Sugar .....	None	.....	None	.....
Copper (parts per million) .....	.....	.....	10.0	.....
Unsaponified saponifiable matter .....	1.0	.....	1.0	.....
Anhydrous soap .....	.....	64.0	.....	81.0
Titer of the mixed fatty acids prepared from the soap .....	22°C.	.....	22°C.	.....
Iodine number (Wijs) of the mixed fatty acids prepared from the soap .....	90.0	74.0	90.0	74.0
Acid number of the mixed fatty acids prepared from the soap .....	205.0	180.0	205.0	180.0
Residue retained on a No. 12 sieve (class B only) .....	.....	.....	1.5	.....
Organic oxidation inhibitor .....	.....	.....	.....	0.10

<sup>a</sup>Unless otherwise specified.

ing with a water solution of the soap and rinsing thoroughly with hot water.

Low-titer soap shall conform to the requirements in the accompanying table.

The percentage of matter volatile at 105°C. shall be computed and reported by the testing laboratory on the soap as received. The percentages of all other constituents shall be calculated and reported on the basis of material containing 32.0 per cent of volatile matter for type I or 7.0 per cent of volatile matter for type II. Percentages are by weight.

Type II shall be as resistant as possible to development of rancidity and heating during storage. The product shall have no objectionable odor for a minimum of 15 days.

## Soap, Laundry (Chip, Rosin- Type) P-S-581b

This specification covers rosin-type chip laundry soap for use in heavy-duty laundering, such as heavily-soiled occupational clothing, where high wash temperatures are required. It shall be of but one type.

The composition shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 15 per cent.

Laundry chip soap shall be a well-made, uniformly mixed soap in chip form, made from soda, rosin, and fats, and shall be of a uniform color. It shall dissolve readily in hot water.

The odor shall not be objection-

able in the soap as received or in a hot solution of the soap in water and not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

## Soap-Powder P-S-606a

Soap-powder shall be of but one type. It shall be a uniform mixture of soap and sodium carbonate, and/or other alkaline salts, in powdered form. It shall be readily soluble in tepid water, shall contain no free caustic alkali or inert fillers, and shall be free from objectionable odor.

Anhydrous soap shall be not less than 15.0 per cent; alkaline salts, calculated as sodium carbonate (Na<sub>2</sub>CO<sub>3</sub>), shall be not less than 30.0 per cent; the sum of anhydrous soap and alkaline salts, calculated as sodium carbonate (Na<sub>2</sub>CO<sub>3</sub>), shall be not less than 55.0 per cent.

## Soaps, Potash-Linseed Oil (Liquid and Paste, Floor and General Cleaning) P-S-603b

This specification covers liquid- and paste-type linseed oil soaps suitable for use in washing floors and linoleum. It shall be of the following types:

Type I.—Liquid.

Type II.—Paste.

Type I, liquid soap, shall be a uniform liquid soap made solely from whole neutral raw linseed oil and potash.

Type II, paste soap, shall be a uniform translucent, firm gel or paste made solely from whole neutral raw linseed oil and potash.

The composition of the soap shall conform to the requirements shown in the accompanying table. Percentages are by weight.

The percentage of moisture shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture content of 50 per cent (type II only).

Type I, liquid soap, shall be soluble in soft water and when diluted with water shall act as a cleaner. The flash point shall be above its boiling point. It shall not contain any solvents or oils that will damage floor surfaces. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The material shall not leave an objectionable odor on surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water.

Type II shall be a uniform translucent firm gel or paste soap of a yellowish-white to greenish brown color. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water.

Type II shall dissolve readily to give a 0.15- to 0.2-per cent solution, using distilled water at 15.5° to 20°C. (60° to 68°F.). The solution so prepared shall yield at least 150 milliliters of suds.

A solution of type II in soft water shall act as a cleaner and shall not damage floor surfaces.

The material of each type shall not become rancid or otherwise deteriorate when kept in a closed container.

## COMPOSITION (P-S-581b)

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 105°C .....	.....	15.0
Sum of free alkali or free acid, total matter insoluble in alcohol, and sodium chloride .....	.....	12.0
Free alkali, calculated as sodium hydroxide (NaOH) .....	.....	.5
Free acid, calculated as oleic acid .....	.....	.5
Matter insoluble in water .....	.....	1.0
Chloride, calculated as sodium chloride (NaCl) .....	.....	1.0
Rosin .....	.....	20.0
Anhydrous soap .....	72.0	.....
Titer of the mixed fatty acids prepared from the soap .....	29°C.	.....

## COMPOSITION (P-S-603b)

	Type I		Type II	
	Minimum Per Cent	Maximum Per Cent	Minimum Per Cent	Maximum Per Cent
Moisture (toluene distillation method) .....	.....	.....	.....	55
Total matter insoluble in alcohol .....	.....	0.5	.....	1.0
Free alkali, calculated as potassium hydroxide (KOH) .....	.....	.05	.....	.1
Free acid, calculate as oleic acid .....	.....	.1	.....	.2
Alkaline salts, calculated as potassium carbonate ( $K_2CO_3$ ) .....	.....	.1	.....	.2
Matter insoluble in distilled water .....	.....	.1	.....	.2
Chloride, calculated as potassium chloride (KCl) .....	.....	.3	.....	.5
Unsaponified and unsaponifiable matter ....	.....	.4	.....	1.0
Anhydrous soap, calculated as potash soap	20	.....	43	.....
Total sodium compounds, calculated as $Na_2O$ .....	.....	.2	.....	.5
Glycerol .....	1.8	.....	4	.....
Rosin .....	.....	None	.....	None
Sugar .....	.....	None	.....	None
Iodine number (WIJS) of mixed fatty acids derived from the soap .....	175	.....	175	.....
Acid number of mixed fatty acids derived from the soap .....	190	205	190	205

**Soap, Toilet (Floating, White)  
P-S-616b**

This specification covers a white floating cake soap suitable for use in personal bathing and general cleaning with soft water. It shall be of but one type.

White floating toilet soap shall be a cake soap of white color, mild and pleasant in odor, thoroughly saponified, and so prepared as to float on water.

The material shall conform to the chemical requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported by the testing laboratory on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 34 per cent.

**Soap: Medium Titer  
P-S-00602  
(interim)**

This specification covers soap intended primarily for use in cleaning wool fabrics, other fabrics, finished surfaces, leather, and other articles, where comparatively moderate-temperature washing solutions are indicated.

Soap covered by this specification shall be of one type and the following forms: Form 1.—Chip; Form 2.—Granular or powdered.

The composition of the soap shall conform to the requirements shown in the table.

The percentage of moisture and volatile matter shall be computed, and reported on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 7 percent.

The soap shall be of a white or light amber color. When specified, the color of the soap furnished shall con-

form to that of the accepted bid sample.

The odor shall not be objectionable in the soap as received or in a solution of the soap in water at 120°F. The soap shall not leave an objectionable odor on objects after washing with a

water solution of the soap and rinsing thoroughly with hot water. When specified, the odor of the soap, under the above conditions, shall conform to that of the accepted bid sample.

**Soap-Borax Powder  
For Dispensers  
P-S-628a**

This specification covers soap-borax powder mixtures suitable for use in dispensers and of the following types:

Type I.—Without lanolin.

Type II.—With lanolin.

Soap-borax powder for use in dispensers shall be a uniform mixture of a thoroughly saponified soap and borax ( $Na_2B_4O_7 \cdot 10H_2O$ ), free from grit and harsh abrasives, and shall be uniform, free-flowing, and noncaking.

The composition of soap-borax powder shall comply with the requirements specified in the accompanying table.

Compute the percentages of the constituents on the basis of the material as received, calculating the borax as the decahydrate— $Na_2B_4O_7 \cdot 10H_2O$ . Borax ( $Na_2B_4O_7 \cdot 10H_2O$ ) effloresces in warm, dry air. If this has occurred, the sum of the percentages from the computation on the "as-received" basis will exceed 100. If the results are greater than 100 per cent, calculate the percentages of anhy-

## REQUIREMENTS OF WHITE FLOATING SOAP (P-S-616b)

	Test	
	Minimum Per Cent	Maximum Per Cent
Moisture and matter volatile at 105°C. ....	.....	34.0
Sum of free alkali, total matter insoluble in alcohol, and sodium chloride .....	.....	2.0
Free alkali, calculated as sodium hydroxide (NaOH) .....	.....	.1
Chloride, calculated as sodium chloride (NaCl) .....	.....	1.0
Matter insoluble in water .....	.....	.4
Anhydrous soap .....	62.0	.....
Rosin .....	.....	None
Sugar .....	.....	None
Acid number of the mixed fatty acids prepared from the soap .....	212	.....

## COMPOSITION (P.S.00602)

	Minimum	Maximum
Moisture and matter volatile at 105°C. ....percent	.....	7.0
Sum of free alkali or free acid, total matter insoluble in alcohol, and sodium chloride .....	do	6.0
Sodium silicate .....	do	0.25
Free alkali, calculated as sodium hydroxide (NaOH) percent	.....	0.2
Free acid, calculated as oleic acid .....	do	0.2
Matter insoluble in water .....	do	1.5
Rosin .....	.....	none
Sugar .....	.....	none
Copper, parts per million .....	.....	10.0
Anhydrous soap .....	88.0	.....
Titer of mixed fatty acids prepared from the soap....	18°C.	33°C.
Iodine number (wijs) of the mixed fatty acids prepared from the soap .....	75.0	135.0
Residue retained on a No. 12 sieve (Form 2 only) ....percent	.....	1.5
Organic oxidation inhibitor .....	do	0.05

## COMPOSITION (628a)

	Type I		Type II	
	Minimum Per Cent	Maximum Per Cent	Minimum Per Cent	Maximum Per Cent
Anhydrous soda soap .....	23.0	27.0	35.0	39.0
Borax (calculated as $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$ ) .....	72.0	77.0	57.0	63.0
Lanolin .....	.....	0.0	2.5	3.5
pH value .....	9.0	10.2	8.5	9.5
Matter insoluble in water .....	.....	0.2	.....	0.3

## COMPOSITION (P-S-626c)

	Minimum Per Cent	Maximum Per Cent
Moisture and matter volatile at 105°C. ....	.....	6.0
Sum of free alkali, total matter insoluble in alcohol, and sodium chloride .....	.....	2.0
Free alkali, calculated as sodium hydroxide (NaOH) .....	.....	0.1
Matter insoluble in water .....	.....	0.2
Anhydrous soda soap .....	91.0	.....
Rosin, sugar, and foreign matter .....	.....	None

drous soap and of borax ( $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$ ) by the following formula:

$$\% \text{ on } 100\% \text{ basis} = \frac{A \times 100}{S}$$

where:

A=percentage found

S=sum of the percentages on the "as-received" basis

The soap-borax powder shall produce not less than 100 milliliters foam.

The soap-borax powder shall comply with the following fineness requirements: Type I, maximum retained on No. 12 U. S. standard sieve, 0.00 per cent; minimum on No. 45 sieve, 5 per cent; minimum on No. 100 sieve, 45 per cent. Type II, maximum retained on No. 30 U.S. standard sieve, 0.10 per cent; minimum retained on No. 45 sieve, 5 per cent; minimum retained on No. 100 sieve, 20 per cent.

The soap-borax powder shall be uncolored or tinted.

Rosin, sugar, and other foreign matter shall not be present.

Unless otherwise specified, the soap-borax powder shall be mildly perfumed.

**Soap, Toilet (Powdered,  
Dispensers)  
P-S-626c**

The powdered toilet soap shall be of but one type. It shall be a thoroughly saponified soap in powdered form, made from soda and fats, shall be a uniform, free-flowing, noncaking powder, and shall lather freely when used with cold, soft water at room temperature.

Composition shall comply with the requirements in the accompanying table.

The percentage of matter volatile at  $105^\circ \pm 2^\circ\text{C}$ . will be computed on the basis of the soap as received, but all other constituents will be calculated to the basis of material containing 6 per cent of matter volatile at  $105^\circ \pm 2^\circ\text{C}$ .

The powdered toilet soap shall comply with the following fineness requirements: maximum retained on a No. 12 U. S. standard sieve, 1.5 per cent;

minimum on a No. 45 U. S. standard sieve, 50 per cent; and minimum on a No. 100 U. S. standard sieve, 90 per cent.

Unless otherwise specified, powdered toilet soap shall be mildly perfumed and, unless otherwise specified, it shall be uncolored.

**Soap, Toilet (Cake, Milled)  
P-S-621c**

This specification covers a milled cake soap suitable for use in personal bathing. It shall be of but one type.

The soap shall be thoroughly saponified and its composition shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and

volatile matter content of 15 per cent.

Milled toilet soap shall be a high-grade, milled cake soap, as free as possible from water, either colored or uncolored, well compressed in firm, smooth cakes of a size and shape specified in the contract or order. It shall lather freely when used with cold water. Unless otherwise specified, the soap shall be mildly perfumed.

**Soap, Laundry (Powdered)  
P-S-596c**

This specification covers a white or light amber powdered laundry soap suitable for use in high temperature laundering of soiled cotton fabrics, and for general cleaning of soiled cotton fabrics, and for general cleaning with soft water. It shall be of but one type.

The composition shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 6 per cent.

Powdered laundry soap shall be a soap in powdered form made from soda and fats, without rosin, and shall be of a white or light amber color. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

**Soap, Laundry (Granulated,  
Rosin-Type)  
P-S-583b**

This specification covers rosin-type granulated laundry soap for use in heavy-duty laundering, such as heavily-

## COMPOSITION (P-S-621c)

	Minimum Per Cent	Maximum Per Cent
Moisture and matter volatile at 105°C .....	.....	15.0
Sum of free alkali, total matter insoluble in alcohol, and sodium chloride .....	.....	1.7
Free alkali, calculated as sodium hydroxide (NaOH) .....	.....	.1
Matter insoluble in water .....	.....	.4
Unsaponified saponifiable matter (free fat) .....	.....	.3
Anhydrous soap .....	83.0	.....
Rosin, sugar, and foreign matter .....	.....	None

## COMPOSITION (P-S-596c)

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 150°C. ....	.....	6.0
Sum of free alkali, total matter insoluble in alcohol, and sodium chloride .....	.....	6.0
Free alkali, calculated as sodium hydroxide (NaOH) .....	.....	0.2
Matter insoluble in water .....	.....	1.0
Anhydrous soap .....	89.0	.....
Residue retained on a No. 12 sieve .....	.....	1.5
Rosin .....	.....	None
Titer of the mixed fatty acids prepared from the soap ....	39°C.	.....

soiled occupational clothing, where high wash temperatures are required. It shall be of but one type.

The composition of the soap shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed, and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 10 per cent.

Granulated laundry soap shall be a well-made, uniformly mixed soap in granulated or powdered form, made from soda, rosin, and fats, and shall be of a uniform color.

The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

#### Soap; Laundry, Ordinary, Bar P-S-591c

This specification covers an ordinary laundry bar soap, containing rosin for use in heavy-duty laundering, such as heavily-soiled occupational clothing, where normal wash temperatures are involved. Ordinary laundry bar soap shall be of but one type.

The composition of the soap shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 36 per cent.

The soap shall be a well-made, uniformly mixed laundry or common soap in bar form, made from soda, rosin, and fats. The soap shall have a uniform color. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on fabrics or objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

#### Insecticide, Lindane (Water-Dispersible Powder) O-I-535

The insecticide covered by this specification is a 75 per cent lindane water-dispersible powder designed to provide a water dispersion suitable for use as a residual effect spray for the control of mosquitoes, flies, sand flies, mites (chiggers), ticks, and fleas. It shall be of one type and one grade.

The insecticide shall be composed of lindane and inert ingredients, as follows:

The insecticide shall be compounded to contain a concentration of 75.0 per cent lindane by weight, and the finished insecticide shall contain not less than 534 mg. nor more than 570 mg. of organically bound chlorine per gram.

The lindane shall be the gamma isomer of 1,2,3,4,5,6-hexachlorocyclohex-

ane of a purity not less than 99 per cent. It shall be a white crystalline substance having a melting point not less than 112°C.

The inert ingredients shall be such biologically inert diluting, modifying, and conditioning agents, free of organically bound chlorine.

The insecticide shall be a free flowing powder, readily wettable with water and shall be of a light color such as white, cream, or light gray.

In the preparation of test suspensions of the insecticide powder, any foam produced shall not have such copiousness, stability, or other properties as would prevent the completion of the tests specified.

The surface-mean particle diameter of the insecticide powder shall not be greater than 5.0 microns.

Not less than 98 per cent of the insecticide powder shall pass through a 74-micron (No. 200) U. S. Standard sieve, and not less than 100.0 per cent shall pass through a 1-mm. (No. 18) U. S. Standard sieve.

Not less than 95 per cent of the insecticide powder incorporated in a suspension shall pass through a 250-micron (No. 60) U. S. Standard sieve.

A suspension of the insecticide powder shall have a pH value not lower than 5.0 and not higher than 9.0. If pH is above 8.0, not more than 10.0 ml. of half normal hydrochloric acid shall be required to neutralize the alkalinity of a 20.0 gm. sample when titrated.

The product shall be clean and uniform, and free of any defects which might impair its utility.

#### Polish; Metal P-P-556a

Metal polish shall be of the following types:

Type I.—Powder.

Type II.—Liquid.

Type III.—Paste.

Metal polish on each type shall be of but one grade.

All types of metal polish shall have—(a) Good tarnish removing properties. (b) Good luster-producing properties.

Good protection of the polished surface against tarnishing influences, and shall be so constituted and prepared that, by reason of application and polishing, they—shall not scratch metals; shall not leave the metal discolored or caked with abrasive material; shall not be detrimental in any manner to metals; shall not show any unnecessary caking of type I or III polish in the containers. The abrasive material in liquid (type II) polish, shall show no caking in the container, which cannot be readily put into suspension by thoroughly shaking the containers.

The abrasive material shall be of such particle size that 100 per cent will pass through a No. 200 sieve.

Metal polish shall be free from acids, cyanide of potassium or other cyanides, grit, or other ingredients having detrimental effects on metals.

It shall clean quickly, leaving a bright polished surface, with a full luster for the material being polished.

The polished surface shall remain

(Turn to Page 266)

#### COMPOSITION (P-S-583b)

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 105°C. ....	.....	10.0
Sum of free alkali or free acid, total matter insoluble in alcohol, and sodium chloride .....	.....	14.0
Free alkali, calculated as sodium hydroxide (NaOH) .....	.....	.5
Free acid, calculated as oleic acid .....	.....	.5
Matter insoluble in water .....	.....	1.0
Chloride, calculated as sodium chloride (NaCl) .....	.....	1.0
Rosin .....	.....	20.0
Anhydrous soap .....	75.0	.....
Residue retained on a No. 12 sieve .....	.....	2.0
Titer of the mixed fatty acids prepared from the soap .....	29°C.	.....

#### COMPOSITION (P-S-591c)

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 105°C. ....	.....	36.0
Sum of free alkali or free acid, total matter insoluble in alcohol, and sodium chloride .....	2.0	11.0
Free alkali, calculated as sodium hydroxide (NaOH) .....	.....	.5
Free acid, calculated as oleic acid .....	.....	.5
Matter insoluble in water .....	.....	1.0
Chloride, calculated as sodium chloride (NaCl) .....	.....	1.0
Rosin .....	.....	25.0
Anhydrous soap .....	52.0	.....
Titer of the mixed fatty acids prepared from the soap .....	29°C.	.....



# The Peet-Grady Method

Official Method of the Chemical Specialties  
Manufacturers Association\* for Evaluating  
Liquid Household Insecticides, Latest Revision

THE Peet-Grady Method was adopted as an official test in 1932, and has since been improved in certain details, all improvements have been officially accepted after thorough investigation by the CSMA Insecticide Scientific Committee. Inquiries regarding the method should be addressed to the chairman of this Committee. This method of test is a means of determining the relative efficiency of contact insecticides dissolved in fly spray base oils suitable for household and industrial use. The method does not apply to cattle sprays having viscosities materially higher than those of fly spray base oils. As a biological test it is subject to variations which accompany the reaction of living organisms and should be employed under the supervision of a person familiar with the biological testing of insecticides. In order to measure with reasonable tolerance the relative effectiveness of different insecticides, the test is designed to be used in conjunction with the "Official Test Insecticide" as the basis of comparison.

Two methods, or procedures, are permitted. The small group method is substantially the same as outlined at the time the test was adopted in 1932 while the large group method was adopted officially in 1938. Both methods are being used extensively, and if correctly employed, evaluation by either test may be expected to be in reasonable agreement.

## II. APPARATUS

**A. Reference Insecticide:** The reference insecticide shall be the current Official Test Insecticide (OTI) prepared and sold by the CSMA, 110 E. 42nd Street, New York 17, New York. The OTI is carefully standardized by both biological and chemical analysis and it must not be diluted or changed in any manner.

**B. Atomizer:** The Special Atomizer No. 5004, constructed by the DeVilbiss Co., Toledo, O., must be used, preferably with the DeVilbiss No. 631 cut off. This atomizer shall be operated with air free of contaminants and maintained at a constant pressure of  $12.5 \pm 0.5$  pounds per sq. in. measured by a gage of not more than 30 pounds capacity or a manometer. The atomizer shall deliver 12 ml. of OTI in 24 seconds (tolerance  $\pm 1$  second) and this should be checked frequently. Atomizers failing to meet this test should be

\*Chemical Specialties Manufacturers Association, 110 E. 42 Street, New York, New York.

repaired by the manufacturer or replaced.

**C. Test Insect:** The test insect shall be the adult house fly (*Musca domestica* L.) reared from a strain mixed under the supervision of the CSMA. Flies in test groups shall be not less than 3 nor more than 6 days old at the time of testing, and must meet the CONDITIONS FOR OFFICIAL EVALUATION, Section IV.

**D. Fly Cages:** Cages of any convenient type may be used if they provide at least 1 cubic inch of space per fly and at least 2 sides and the top are screened. The floor of the cage preferably is detachable, to facilitate cleaning and inserting a paper floor covering. The cages are constructed of wood or other suitable material and fly wire screening, and are fitted with a sleeve opening, rubber membrane, or a door.

**E. Rearing Room:** This room may be of any convenient size constructed so as to be free from strong drafts, and maintained at a temperature of  $82 \pm 2$  degrees Fahrenheit and relative humidity of  $50 \pm 5$  percent. It should be separate from the testing room in order to eliminate the possibility of traces of insecticide coming in contact with the test insects. Ventilation should be provided to reduce odors and gases from fermenting media.

**F. Testing Room:** This room may be of any convenient size capable of holding the standard Peet-Grady Chamber and permitting adequate additional space for the operator to handle the test efficiently. While conducting tests, this room shall be maintained at a temperature of 75 to 85 degrees Fahrenheit. It is suggested that relative humidity be held between 40 and 70 per cent. Since the exhaust fan of the chamber will move relatively large quantities of air, the temperature of the air entering this room should be approximately that specified above.

**G. Peet-Grady Test Chamber:** The Test Chamber shall be rigidly constructed of wood, metal, or other suitable material. The inner surface shall be smooth, impervious to the usual household type of insecticide, and as free from cracks, projections, ledges, etc., as possible. The chamber shall be a 6-ft. cube by internal measurements, with a tolerance of plus or minus 1 in. for any dimension. One wall shall contain a tight-fitting door large enough for a man to enter conveniently, with the interior side flush with the wall when closed. One or more of the walls, or the

ceiling, shall contain an observation window, preferably on two opposite walls. Illumination is provided by means of a glass window in the ceiling, above which is placed an electric light of such intensity as to permit flies to be observed easily. An opening covered with 10 or 12-mesh wire screen shall be connected to an exhaust fan duct and the size and the location of this opening in relation to ventilation openings in the wall must be such that thorough ventilation of the chamber is obtained. Preferably, the exhaust opening should be 1 sq. ft. or larger and located in or near the ceiling. Air inlet openings may be ports approximately 6 x 6 in. in size, covered with screen on the inside and provided with tight fitting hinged covers on the outside. Four ports located near the 4 lower corners, or 8 ports located near both the 4 upper and 4 lower corners are satisfactory, but the ventilation ports should not be on the same level as the exhaust port. The entrance door may be used alone or in conjunction with the ventilation ports if a screen door is provided and thorough ventilation of the chamber is obtained. If the temperature of the air used to ventilate the chamber is lower than 80° F., heaters may be used to obtain the temperature of  $82 \pm 2$ ° F. required during the test period. Such heaters must be removed before a test is started. Openings shall be provided for the introduction of the insecticide; these must be so constructed and so located that uniform distribution of the spray is effected without undue ventilation of the chamber. These openings may be round 1 in. holes located not less than 6 in. or more than 12 in. from the ceiling and 18 in. from the nearest corner on each wall, or a single hole may be provided in the center of each wall 6 to 12 inches from ceiling.

**H. Exhaust Fan:** An exhaust fan moving not less than 1,000 cu. ft. of air through the chamber per min. shall be used to ventilate the chamber after each test. It shall be arranged with adequate piping to exhaust the chamber vapors outside of the building.

**I. Insecticide Paper:** Unsized, non-glazed absorbent paper, such as brown kraft or gray bogus, shall be used to cover the chamber floor. Two overlapping sheets of 36-40 in. width or one sheet of 6 ft. width may be employed. No special weight is specified although 60-80 lb. gray bogus paper has been found excellent.

**J. Apparatus for Picking Up Flies:** Any convenient means of picking up

the paralyzed flies without injuring or appreciably disturbing them may be used. If a vacuum device is used, it must produce gentle suction, have a sufficiently large receptacle to prevent crowding of the flies, and it shall be cleaned after each test with the same materials used in cleaning the chamber.

### III. PROCEDURE

#### A. Rearing and Handling Flies:

In this procedure, eggs are transferred to medium suitable for the development of larvae, the pupae are collected from the medium and placed inside of cages, and the adult flies emerge and remain in these cages until the day of testing. A culture is defined as all adults resulting from the seeding of eggs collected at one time on a given date.

**Larval medium:** The preferred containers are cylindrical glass battery jars approximately 6 in. in diameter and 9 in. high. For one jar, mix 340 gm. (12 oz.) standard dry larval medium (1) with approximately 750 ml. of an aqueous suspension containing 15 gm. moist cake yeast and 10 cc. Diamalt, (2). Mix thoroughly until a loose, fluffy medium is obtained, transfer it to the battery jar without packing, cover with cloth and set in the insectary. The amount of suspension required for best rearing results will need be determined in each laboratory and it may be varied in order to prevent mold growth. It is suggested the medium be prepared in the late afternoon of the day before egg collection.

**Eggs:** Eggs are collected for a period not longer than 16 hours from food dishes or other oviposition media in cages containing mature flies not more than 8 days old. It is suggested that fresh oviposition medium be placed in fly cages in the late afternoon and eggs be collected early on the following morning. After collecting the eggs they must be measured and seeded without delay. Wash all the eggs together in tap water at room temperature and measure 2000 eggs as accurately as possible. This may be done by allowing the eggs to settle in a calibrated pipette or graduate (0.1 ml. settled eggs contains about 700) or the eggs can be filtered and measured in calibrated pits or cells. Use 10 ml. tap water to measure and to scatter the eggs in a pit or trench  $\frac{1}{2}$  in. deep and located in the center of the jar of larval medium. Cover the eggs with loose medium, replace the cloth covers on the jars, and set jars in the insectary so that at least 1.5 in. separates each jar to permit free air circulation. The maximum temperature in the jar (about 3 days later) must not exceed 130°F. Under normal conditions more than 85 per cent of the eggs should hatch within 36 hours of the time they are laid.

**Pupae:** Mature larvae migrate to the top portion of the medium and

normally all larvae will have pupated by the seventh day after seeding eggs. When this occurs, the portion of medium containing pupae may be loosened, poured into a shallow tray, and air dried at room temperature. An electric fan may be used to hasten drying. Pupae may be separated from the dry medium by sprinkling the pupae-medium mixture on an inclined tray or chute set in front of an air blast such as that from an electric fan. The pupae must be handled gently and as little as possible in order to avoid injury. Any method that permits at least 95 per cent of flies to emerge is considered satisfactory.

All of the pupae maturing on a given day are combined into one lot, mixed, and measured into test units. Each group is placed in a shallow dish which is, in turn, placed in a cage which provides at least 1 cu. in. of space per pupa. If the large group procedure is used the test unit consists of approximately 500 pupae. If the small group procedure is used, more than 500 pupae are placed in stock cages and adult flies are sampled prior to testing. Under normal rearing conditions, at least 80 adult flies should be obtained from each 100 eggs seeded.

**Adult Fly Food:** The food for adult flies shall consist of 5 per cent spray dried, non-fat-milk solids and 2 per cent granulated sugar thoroughly dispersed in water. Roller dried or caked milk solids settle out of suspension within a few hours and are unsuitable as food. A 40 per cent formalin solution may be added to the food at the rate of 1/1500 to delay souring. Each cage is supplied daily with a dish containing at least 15 ml. food for each 100 flies, and so prepared as to prevent the flies from drowning. Satisfactory food must be available to the flies at all times.

**B. Testing Flies:** Before a fly spray test is started, the Peet-Grady chamber must be clean and have clean paper on the floor, all ports and openings must be closed, the temperature must be  $82 \pm 2^\circ\text{F}$ ., and all windows must be shaded equally. In both procedures, only flies which are capable of flying may be liberated into the Peet-Grady chamber. In the large group procedure all flies in one cage are used in a single test, but in the small group method a sample of  $100 \pm 5$  flies is used in each test. Samples may be taken by liberating the flies directly into the chamber and continuing until about 10 per cent of flies remain in the stock cage. These are discarded. The order of spray treatments must be randomized as discussed in Section IV, paragraph 6.

Immediately after liberating the flies in the chamber, a total of 12 ml. of insecticide shall be sprayed in equal quantities through each spray hole. The nozzle of the atomizer shall be oscillated slowly in a horizontal plane to avoid spraying walls and ceilings and to effect uniform distribution of the spray. This procedure shall be completed within one minute from the time the spraying was started and the chamber must remain closed at a constant temperature in the

range of  $82 \pm 2^\circ\text{F}$ . for a total of 10 min. At the end of this period the ports are opened and the chamber is ventilated by means of the exhaust fan while the flies are collected.

The paralyzed flies are picked up and transferred immediately to clean cages meeting the specifications of Section II, paragraph D. These flies may be counted when they are picked up or later, depending upon which time is most convenient. During the subsequent 24-hr. recovery period, the cage is placed in the rearing room and supplied with an adequate quantity of a 5 per cent sugar solution, arranged so that the top of the dish is not more than  $\frac{3}{4}$  inch above the floor of the cage and flies cannot drown in it. A gauze-wrapped ball of cotton saturated with 5 per cent sugar solution also is satisfactory.

The unparalyzed flies in the chamber at the end of the 10-min. exposure period must be counted and discarded.

After a test is completed, all toxic residues must be removed from the chamber. The paper on the floor must be renewed and the inside walls and ceiling must be cleaned thoroughly. Wiping with a clean cloth saturated with alcohol containing 10 per cent acetone or washing with soap and water will remove a number of toxic residues. However, special cleaning precautions may be required after tests with certain chemical compounds in order to remove their toxic residues. Contamination by many compounds may be detected by holding flies with food overnight in the cleaned chamber. The chamber is considered contaminated if more than 8 per cent of flies are either paralyzed in 30 minutes or are dead in the morning.

**C. Assembling the Data:** The number of unparalyzed flies must be counted and recorded at the end of the 10-min. exposure period. The dead flies are counted 24 hours ( $\pm 1$  hr.) later preferably by removing them from the recovery cage. Only flies that show no sign of life upon being touched may be counted as dead. If paralyzed flies were counted as they were collected, the sum of paralyzed and unparalyzed flies yields the total flies in the test. If paralyzed flies were not counted as collected, the recovered flies are killed by placing the cage in an oven at 170°F for a few minutes, after which they are counted. The sum of recovered and dead flies yields the paralyzed flies and this sum added to the unparalyzed flies yields the total flies used in the test. The mortality is the per cent dead of total flies and the knockdown is the per cent paralyzed of total flies.

### IV. CONDITIONS FOR OFFICIAL EVALUATION

1. The tests shall be conducted in accordance with the procedure previously described and no official Peet-Grady rating may be assigned unless the tests meet all requirements.
2. At least 2 cultures of flies shall be used in making an official evaluation.

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(1) Mixed according to CSMA specifications by the Ralston Purina Co., St. Louis, Mo.

(2) Standard Brands Inc. products. These can be obtained from local distributors in most cases.

# Aerosol Insecticides Storage Test

Tentative official method of the Chemical  
Specialties Manufacturers Association  
for Storage of Aerosol Insecticides

**A**EROSOL insecticides are subjected to storage tests in order to ascertain the shelf-life of the complete package and to evaluate the degree of suitability of the valve and container components for their intended uses. It is impractical to promulgate a set procedure for conducting storage tests since variations will be necessitated by differences in the ultimate objective. For example, the primary interest of one investigation may be in valve evaluation, while another may be principally concerned with container suitability or the shelf-life of a new product in an existing package. It follows that storage test methods must be flexible enough to accommodate the small procedural changes thus required. An attempt will be made only to outline the principles to be observed in establishing a definite procedure in order to allow the individual investigator the prerogative of adapting these to satisfy his particular requirements.

There are three major points that should be borne in mind when a storage test of aerosol containers is to be made. First, sufficient samples should be available to replace any containers that fail during the course of the test and to make it possible to later extend the storage period, if desired. There is nothing more discouraging than reaching the end of a long storage test with a quantity of samples which, due to unusual conditions arising, are insufficient in number to provide a sound basis for drawing valid conclusions. Second, it is extremely important that the examinations of the test pack be conducted according to standardized procedures and at regularly scheduled intervals. Only if this rule is followed can there be any assurance that important developments will not be missed and that the results will correlate with those of other storage tests. Third, the examinations should be made by personnel familiar with the problem being investigated and well qualified to evaluate the condition of the containers, valve components and product. It is highly desirable to have the same individual conduct all the examinations of a given test pack since most of the data is not obtained by direct measurement and is, therefore, not entirely objective in nature. This and a standardized examination procedure will do much to minimize the effect of the human element.

Before any samples are committed to storage, certain information should be made available. So that the test

pack can be intelligently set up, all pertinent background information concerning the problem should be assembled. Certain tests should be conducted to eliminate, insofar as possible, defective containers or valves from the tests, although the frequency of such defects should certainly be recorded. To make this segregation possible, pressure determinations and hot bath, vial leakage and spray tests should be made on each filled container. Conditions of filling and handling should approximate as closely as possible those that would be encountered commercially.

There are two types of storage tests that may be performed with aerosol insecticides. The first is the so-called "live" storage test, in which the valves are actuated and the determinations made at relatively frequent intervals. The purpose is, of course, to simulate conditions encountered during use of aerosol dispensers. The second type of test, often referred to as "dead" storage, simulates conditions found in warehouse storage and is performed when shelf-life information is sought.

## Live Storage Test

Containers for "live" storage tests are generally stored at room temperature. In addition, a higher temperature storage, e.g., 98°F., is frequently employed. Use of the latter storage temperature is particularly desirable when a new valve or product is being evaluated. The use of storage temperatures below 32°F. or the alternate exposure of test containers to sub-freezing and elevated temperatures is said to have considerable merit in the screening of new valves or new valve materials.

If the purpose of the investigation is to evaluate a valve, half the samples at each storage temperature should be kept in an inverted position. If the product or any constituent thereof exerts a detrimental effect on the sealing material of the valve, often the conditions may be observed more readily in the case of the inverted cans. Six cans inverted and six upright for each temperature is the minimum sample of each variable that should be considered. If the test is to involve only one storage condition, ten to twelve cans per variable, upright and inverted, is a more desirable sample size.

Examinations of "live" storage cans are usually made weekly and possibly oftener if completion of the test in less total elapsed time is necessary. The tests are usually considered com-

pleted when 10 grams or less of product remains in the containers. Extension of the test beyond this point may cause erratic and unreliable results. At each examination weight loss and discharge rate (10 seconds) are measured. The determination of internal pressure at each examination is usually not necessary, but it is recommended that pressures be taken initially and two or three other times, equispaced during the test. Particle size may also be determined, if desired. When any valve becomes inoperative or fails to operate properly, the container and valve should be torn down immediately to ascertain the cause of failure. Each container and valve should be critically examined as soon as possible after the final valve actuation of the test.

## Dead Storage Test

A wider range of storage conditions are employed in "dead" storage tests than is the case with "live" storage, 95-100°F., room temperature, 130°F., and below freezing (0-32°F.) being used. Standard procedure usually calls for the use of 98°F. and room temperature storage, while the other temperatures are employed in special cases. Temperatures of from 95° to 100°F., often referred to as incubation temperature, may accelerate container corrosion and leakage if the containers are so predisposed. However, incubated storage should always be used in conjunction with room temperature since it is often difficult, if not impossible, to predict normal shelf-life on the basis of 98°F. tests alone. Storage below freezing is valuable for evaluating the sealing efficiency and suitability of the gasket materials in insecticide valves. Storage at 130°F. is employed when the resistance of the container to structural fatigue is to be determined. Containers at each storage temperature should be held both upright and inverted.

Examinations of containers in dead storage are usually made following 1-, 3-, and 6-months storage and at 6 month intervals thereafter until the test is completed. Most investigations are concluded after 24-months storage, but they may be extended for a much longer period, if the previous results and the objective so require.

Samples should be provided for the "dead" storage test so that a minimum of two dispensers of each variable from each storage temperature can be evaluated and torn down at each scheduled examination. The other samples



remain untouched, except for weighing, until they are needed at a subsequent examination. A minimum of twelve extra containers per variable should be stored at each temperature to allow for extension of the test, if such later becomes necessary, and to allow a larger number of samples to be inspected at the final examination. Thus, the minimum suggested number of cans per product, container or valve variable becomes:

$$4np(4 + y)$$

where:  $y$  designates the duration of the test in years,

$n$  the number of storage temperatures, and

$p$  the number of storage positions to be employed.

### Examination

The examination of the pack may be divided into performance determinations, container and valve inspection, and product evaluation. The performance of the complete aerosol insecticide package is ascertained by making weight loss, discharge rate, pressure and possibly particle size determinations. If entomological data is required, such may be obtained by standard procedures now extant. As a check on filling, the volatile/non-volatile ratio may be determined following these tests. After expulsion of the propellant, the product should be transferred and the container and valves carefully torn down and examined. The metal valve parts should be inspected carefully for evidences of corrosion, and the rubber or plastic components for swelling, softening or disintegration. Conditions in the container interiors should then be noted with special emphasis on any staining, denting, rusting, pitting or other indications of corrosion that may be present. Microscopic examination of valve and container components is recommended for without this assistance important and indicative developments may be overlooked. The product from the test containers is usually examined for color change, precipitate or sludge formation. If corrosion is found or suspected, it is suggested that the product be analyzed for the moisture, iron and tin content. If any abnormal or undesirable conditions are found in performance of valve or product, sufficient additional samples of the same lot should be examined to confirm the findings.

### Safety Precautions

Aerosol storage tests involve a container, valve or product of unknown compatibility and performance. For this reason, and remembering the violence that may accompany the bursting of aerosol containers, it behooves the investigator to observe safety precautions. The necessity of using gloves, safety shield and glasses, and equipment with proper controls does not need further amplification. If, in the course of a test, container perforations or signs of advanced corrosion are found, or if the product, dispensers and/or valves other-

wise become unmerchantable, the entire lot of samples should be destroyed. Besides wasting time and space, to continue such dispensers under test is to run the risk of serious accident.

### Typical Pack

The above can best be illustrated by presenting in table form (Table I) a typical aerosol insecticide storage test made to compare in a given container the shelf-lives of a new formulation and a standard formulation. It is assumed that the pre-test information has been accumulated, and containers or valves with obvious defects have been eliminated.

### Other Test Procedures

There are several other procedures that should be considered in conjunction with an aerosol testing program.

In evaluating a valve for a given formula it may be desirable to subject the containers to a continuous discharge test whereby the containers are emptied in a single burst or a series of long bursts. Such a procedure is very rapid and may give valuable clues on the suitability of the valve gasket material for the product. If indications of weakening, disintegration or undue swelling of the valve gaskets are found by means of this test, particular attention should be directed to the results of the live storage test.

Before commercial packaging of a new product or the use of a new container or valve is approved, certain in-

formation outside the scope of the laboratory test should be obtained. Filled containers should be subjected to normal handling, cartoning and shipping operations to determine the suitability of protective devices and the resistance of containers and valves to shock. Dispensers should be shipped to and stored in warehouses having the extremes in temperature that could be encountered in distributing and marketing the product. After the predetermined storage period in the various locations, the containers should be returned to the laboratory for complete examination.

Once commercial packaging of a product is initiated, a program may be inaugurated whereby defective or complaint dispensers encountered in the field are returned to the laboratory. By this means a continuous check on quality is maintained and it may enable the packer to be forewarned of difficulty before it becomes serious so that corrective measures may be taken.

### Summary

To summarize, the three major prerequisites for an adequate storage test are: (1) the providing of an adequate number of samples, (2) a well planned examination schedule and procedure, and (3) competent personnel to perform the tests. If the basic rules outlined above are adhered to, much valuable information, not obtainable by other means, will result, thus rendering the storage test an indispensable adjunct to the aerosol insecticide testing program.

TABLE I

	"Live" Storage	"Dead" Storage
Product, container, valve variables	2 (product)	2 (product)
Storage temperatures	R.T., 98°F.	R.T., 98°F., 30°F.
Storage positions	Upright & Inverted	Upright & Inverted
No. of filled cans per formula	24 (half inverted at each temperature)	144 (half inverted at each temperature)
Total No. of filled cans	48 (half inverted)	288
Duration of test	Until completed	2 years
Examination schedule	Weekly	1,3,6,12,18,24 months
No. of containers examined each examination	48 cans	24 cans (2 per product per temperature per position), all remaining dispensers examined after 24 months storage. All dispensers weighed.
Examination procedure	1. Wt. loss 2. Pressure (see above) 3. Discharge rate (10 sec.) 4. (Particle size) 5. Valve and container inspection at final examination or when failure occurs.	1. Wt. loss 2. Pressure 3. Discharge rate (10 sec.) 4. Valve examination 5. Container examination 6. Product examination



# Aerosol Test Method for Flying Insects

Official Method of the Chemical Specialties Manufacturers Association\* for Assaying Aerosols for Flying Insects

## I. INTRODUCTION

Early in the developmental period of liquefied gas aerosols starting in 1942 and especially following their appearance on the civilian market on a large scale in 1946, the need for a common method of biologically assaying aerosols became apparent. The literature records several testing techniques (among them 1, 2, 3, 4, and 5) employed by various investigators at that time, but the necessary cooperative tests leading to the development of an official method were not initiated until 1947. The first series of cooperative aerosol tests among industrial and federal laboratories was organized and conducted in 1947 under the direction of the NAIDM (now CSMA) Aerosol Committee (6). These tests employed a standard formulation in a standard dispenser at three dosage levels by the method in current usage in the cooperator's laboratory. Employing the results of the first cooperative tests as a basis, a second series of cooperative tests was designed and conducted under the direction of the NAIDM's Insecticide Scientific Committee. In this second series of tests made during the period May to October, 1948, four conventional low pressure aerosol formulations, each packaged in a standard dispenser, were tested by nine cooperating laboratories. In these tests (7), the use of free flying flies, a standard dosage and a standard testing technique were employed. A third series of cooperative tests were conducted by ten participating laboratories. These tests (8) made use of three coded formulations containing .2%, .4%, and .8% pyrethrins. (See minutes). The method here presented is based on the outcome of the first, second, and third series of cooperative tests and, in so far as practical, follows the Official Peet-Grady (9) Test Procedure (both large and small group). This technique for testing aerosols should be regarded as a practical test method designed for the comparison of formulations in the dispensers in which they will be employed by the consumer. It is restricted at present to the use against house flies, although it is felt that with modifications in dosage the general procedure would be satisfactory for other flying insects.

## II. APPARATUS.

### A. Reference Insecticide.

The reference insecticide shall be the Official Test Aerosol (OTA) prepared by the CSMA, Inc. The OTA

must be dispensed from the container in which it is supplied with particular care being taken that the OTA dispenser employed meets the specifications designated on its label.

### B. Dispenser for Experimental Aerosol.

No restriction is made on the dispenser employed in connection with the experimental aerosol formulation. However, it should be noted that the test results apply only to the experimental formulation as dispensed from the particular unit employed. In reporting results, the dispenser used with the experimental aerosol shall be specified.

### C. Test Insect.

The test insect shall be the house fly (*Musca domestica*, L.) reared from a strain mixed under the supervision of the CSMA. Healthy test groups having an average age of four days shall be used and individual flies in the test groups shall be not less than three nor more than six days old at the time of testing. The strain shall be of such susceptibility that the Official Test Insecticide (OTI) will cause a 24-hour mortality of 30 to 55 per cent and with approximately 95 per cent of the flies paralyzed at ten minutes following spray application by the Peet-Grady method.

### D. Fly Cages.

Cages of any convenient type may be used if they provide at least 1 cubic inch of space per fly and have at least two sides and the top screened. It is suggested that the base be square in shape to provide maximum floor space. The floor of the cage is preferably detachable to facilitate cleaning and inserting a paper floor covering. The cages are constructed of wood or other suitable material and 16 mesh wire screening; they are fitted with a sleeve opening, rubber membrane, or a door.

### E. Rearing Room.

This room may be of any convenient size constructed so as to be free from strong drafts, and maintained at a temperature of  $82 \pm 2$  degrees Fahrenheit and relative humidity of  $50 \pm 5$  per cent. It should be separate from the testing room in order to eliminate the possibility of traces of insecticide coming in contact with the test insects. Ventilation should be provided to reduce odors and gases from fermenting media.

### F. Testing Room.

This room shall be of any convenient size, capable of holding the aerosol test chamber (Peet-Grady Chamber or larger chamber) and permitting

adequate additional space for the operator to handle the test efficiently. While conducting tests, this room shall be maintained at a temperature of 75 to 85 degrees F. It is suggested that the relative humidity be held between 40 and 70 per cent. Since the exhaust fan of the chamber will move relatively large quantities of air, the temperature of the air entering this room should be approximately that specified above.

### G. Aerosol Test Chamber.

The test chamber shall be a Peet-Grady Chamber as specified in the Peet-Grady Method, or a larger chamber meeting the general specifications of the Peet-Grady Chamber. In the case of larger chambers, it is recommended that the dimensions be such as to approximate a normal room.

### H. Exhaust Fan.

An exhaust fan moving not less than 1000 cubic feet of air per minute through the Peet-Grady chamber, or a fan of proportionately larger capacity for testing chambers larger than the Peet-Grady Chamber shall be used to ventilate the chamber after each test. It shall be arranged with adequate piping to exhaust the chamber vapors outside of the building.

### I. Insecticide Paper.

Unsize, nonglazed, absorbent paper, such as brown kraft or gray bogus, shall be used to cover the chamber floor. No special weight is specified although 60 to 80-lb. gray bogus paper has been found excellent. In certain laboratories testing chamber ceilings and walls have been covered with cardboard, kraft paper or other material suitably arranged for easy renewal to reduce chamber cleaning difficulties.

### J. Apparatus for Picking Up Flies.

Any convenient means of picking up the paralyzed flies without injuring or appreciably disturbing them may be used. If a vacuum device is used, it must produce gentle suction, have a sufficiently large receptacle to prevent crowding of the flies, and shall be cleaned after each test with the same materials used in cleaning the chamber.

In laboratories in which it is felt desirable to capture unparalyzed flies at the end of the test exposure period, suitable means of capturing the flies without injury in a clean apparatus shall be employed.

\*Chemical Specialties Manufacturers Association, 110 E. 42 Street, New York, New York.

### III. PROCEDURE.

#### A. Rearing and Handling Flies.

In this procedure, eggs are transferred to medium suitable for the development of larvae. The pupae are collected from the medium and placed inside of cages, and the adult flies emerge and remain in these cages until the day of testing.

(a) *Larval medium* The preferred containers are cylindrical glass battery jars approximately 6 in. in diameter and 9 in. high. For one jar, mix 340 gm. (12 oz.) standard dry alfalfa-bran mixture (\*1) with approximately 750 ml. of an aqueous suspension containing 15 gm. moist cake yeast (2) and taining 15 gm. moist cake yeast (\*2) and 10 ml. Diamalt (\*3). Mix thoroughly until a loose, fluffy medium is obtained, transfer it to the battery jar without packing, cover with cloth and set in the insectary. The amount of suspension required for best rearing results will need to be determined in each laboratory and it may be varied in order to prevent mold growth. It is suggested the medium be prepared in the late afternoon of the day before egg collection.

(b) *Eggs*: Eggs are collected for a period not longer than 16 hours from food dishes or other oviposition sites in cages containing mature flies not more than 8 days old. It is suggested that fresh oviposition medium be placed in fly cages in the late afternoon and eggs be collected early on the following morning. After collecting the eggs they must be measured and seeded without delay. Wash the eggs in tap water at room temperature and measure 2000 eggs as accurately as possible. This may be done by allowing the eggs to settle in a calibrated pipette or graduate (0.1 ml. settled eggs contains about 700) or the eggs can be filtered and measured in calibrated pits or cells. Use 10 ml. tap water to measure and to scatter the eggs in a ½ inch pit located in the center of the jar of larval media. Cover the eggs with a loose medium, replace the cloth covers on the jars, and set jars in the insectary so that at least 1.5 inch separates each jar to permit free air circulation. The maximum temperature in the jar (about 3 days later) must not exceed 130°F. Under normal conditions, more than 85 per cent of the eggs should hatch within 36 hours of the time they are laid.

(c) *Pupae*: Mature larvae migrate to the top portion of the medium and normally all larvae will have pupated by the seventh day after seeding eggs. When this occurs, the portion of the medium containing pupae is loosened, poured into a shallow tray, and air dried at room temperature. An electric fan

may be used to hasten drying. Pupae are separated from the dry medium by sprinkling the pupae-media mixture on an inclined tray or chute set in front of an air blast such as that from an electric fan. The pupae must be handled gently and as little as possible in order to avoid injury. Under normal conditions, at least 95 per cent of flies will emerge from the pupae.

The separated pupae are thoroughly mixed and weighed in groups as test units and each group is placed in a shallow dish which is, in turn, placed in a cage which provides at least 1 cubic inch of space per pupa. If the small group procedure is used, more than 500 pupae are placed in stock cages and adult flies are sampled prior to testing. If the large group procedure is used the test unit consists of approximately 500 pupae.

(d) *Adult Flies*: Each cage is supplied daily with a dish containing at least 15 ml. for each 100 flies of a solution consisting of 5% spray dried, non-fat milk with solids (roller dried or caked milk solids settle out of suspension within a few hours and are unsuitable as food.) and 2% granulated sugar thoroughly dispersed in water; this shall be so prepared as to prevent the flies from drowning. A 40 per cent formalin solution at the rate of 1/1500 delays souring of milk for several hours. Satisfactory food must be available to the flies at all times. The series of test units is kept until the second day of oviposition (usually the 14th day after the culture was prepared) when they are ready for testing. Under normal rearing conditions, at least 80 adult flies should be obtained from each 100 eggs seeded.

#### B. Testing Flies.

Before a fly aerosol test is started, the aerosol test chamber must be clean and have clean paper on the floor, all ports and openings must be closed, and the temperature must be  $82 \pm 2^\circ\text{F}$ ., and all windows must be equally shaded. In chambers where walls and ceilings are covered with paper or other material, contamination, if present, must be at sufficiently low levels so as not to influence test results. Chambers are considered to be contaminated and unsatisfactory for test use when test flies, held in them for a 12 to 16 hour period with food but without insecticide treatment, show mortalities in excess of 10%, or when over 10% of the flies are paralyzed within 30 minutes after liberation. It is recommended that laboratories make a standard practice of taking contamination observations, employing a normal fly test group, following each day's testing. In both the large and small group procedures, only flies which are capable of flying shall be liberated into the aerosol test chamber. In the small group method, a sample of  $100 \pm 5$  flies is used in each test; but in the large group procedure, all flies in one cage are used in a single test. Samples may be taken by liberating the flies directly into the

chamber and continuing until about 10 per cent of flies remain in the stock cage. These are discarded. Samples may be taken also by discarding the first 100 flies and then counting 50 flies into each of a series of small cages. One hundred flies are counted into the last cage and, working backward, 50 flies are added to each. Flies remaining in the stock cage are discarded. The order of spray treatments must be randomized.

After liberating the flies in the chamber, and with the bomb at  $82 \pm 2^\circ\text{F}$ ., a total of  $3.0 \pm 0.5$  grams of aerosol mixture per 1000 cubic feet shall be applied in a continuous flow. In Peet-Grady Chambers, this is 0.648  $\pm$  0.108 grams. The dispenser nozzle may be oscillated slowly to effect uniform distribution of the aerosol mist within the test chamber. The mist shall not be directed onto chamber wall and ceiling surfaces. The test dispenser shall be weighed before and after the liberation of the aerosol mixture and the actual weight of material introduced shall be recorded. The chamber is closed at a constant temperature in the range of  $82 \pm 2^\circ\text{F}$ . for 15 minutes from the time the aerosol mist is introduced.

Counts shall be made as to the number of flies "down" (paralyzed) at 5 and 10 minutes following insecticide application. These counts are especially important because with conventional formulations practically all flies "down" at 15 minutes fail to recover during the 24-hour observation period. At the end of 15 minutes the ports are opened and the chamber is ventilated by means of the exhaust fan while the flies are collected.

The "down" flies are picked up and transferred immediately to clean cages meeting the specifications of Section II, paragraph d. These flies may be counted when they are picked up or later, depending upon which time is more convenient. During the subsequent 24-hour recovery period, the cage is placed in the rearing room and supplied with an adequate quantity of a 5 per cent sugar solution, arranged so that the top of the dish is not more than ¾ inch above the floor of the cage and the flies can not drown in it. A gauze-wrapped ball of cotton saturated with 5 per cent sugar solution is also satisfactory.

The "up" (unparalyzed) flies in the chamber at the end of the 15-minute exposure period must be counted and either discarded or captured.

After a test is completed all toxic residues must be removed from the chamber or, if allowed to remain, must be at sufficiently low levels so as not to affect test results. Where chamber surfaces permit, wiping with a clean cloth saturated with alcohol containing 10% acetone will remove a number of toxic residues.

#### C. Assembling the Data.

The number of "up" flies must be counted and recorded at the end of  
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\*1 Mixed quarterly according to CSMA specifications by the Ralston Purina Co., St. Louis, Mo., on the basis of orders received by the first of January, April, July and October, in 50 lb. bags. Terms—pay on receipt of invoice.

\*2 5 gms. dry yeast may be used.

\*3 Standard Brands Inc., products. These can be obtained from local distributors in most cases.

# Cockroach Spray Method

Official Method of the Chemical Specialties Manufacturers Association  
For Evaluating Cockroach Sprays

THE National Association of Insecticide & Disinfectant Manufacturers\* sponsored a fellowship at the Ohio State University from 1937 to 1942 for the study of testing methods suitable for evaluating liquid household insecticides against crawling insects. This project was directed by Prof. F. L. Campbell and employed as investigators at various times were E. N. Woodbury, C. S. Barnhart, E. H. Glass, and J. M. Hutsel. Results of these studies have been summarized in various published articles<sup>1, 2, 3</sup>, and much valuable information was obtained on both rearing and test methods. In spite of the fact that a number of test methods were devised and employed on both bedbugs and cockroaches, none of the methods received widespread official recognition. In 1943 Henderson reported on a liquid cockroach spray testing method being employed by the Production and Marketing Administration of the U. S. Department of Agriculture. From 1943 to 1946 crawling insect test method studies were conducted with CSMA (then NAIDM) support by F. O. Hazard, Wilmington College, Wilmington, Ohio, with special emphasis on the study of the Henderson method. Both liquid and powder methods for cockroach testing have been published by Hazard<sup>4, 5</sup> and L. J. Bottimer<sup>7</sup> on the current method used by the Insecticide Division Livestock Branch, Production and Marketing Administration, United States Department of Agriculture, for the testing of liquid cockroach sprays.

The method here described is a composite of the Bottimer and Hazard method with certain modifications developed through cooperative tests between various laboratories of the CSMA (then NAIDM), and is thought to offer a satisfactory means of determining the relative efficiency of contact insecticides in oils as cockroach sprays. As a biological test it is subject to variations that accompany the reaction of living organisms and should be employed under the supervision of a person familiar with the biological testing of insecticides. In order to measure with reasonable tolerance the relative effectiveness of different insecticides, the test is run in conjunction with the Official Test Insecticide, which is designated as the basis of comparison.

\*Known as the Chemical Specialties Manufacturers Association since 1950.

## II. APPARATUS

*A—Reference Insecticide.* The reference insecticide shall be the current Official Test Insecticide (100 mg. pyrethrins/100 ml. de-odorized insecticide base oil) prepared by the Chemical Specialties Manufacturers Association, Inc. every two years. The OTI must not be diluted or changed in any manner.

*B—Test Insect.* The test insects shall be healthy, normal undeformed adult males of the German cockroach *Blattella germanica* (Linn.). Recently emerged adult males, e.g., whose pigmentation is not dark, shall not be used for testing purposes. It is recommended that the adult stage shall have been attained at least three days prior to testing.

*C—Rearing Room.* This room may be of any convenient size, constructed so as to be free from strong drafts and maintained at a temperature of 75 to 85°F. and a relative humidity of 30 to 50 per cent. It should be separate from the testing room in order to eliminate the possibility of traces of insecticide coming in contact with the test insects. Ventilation should be provided to reduce odor.

*D—Testing Room.* This room may be of any convenient size permitting adequate space for the operator to handle the test efficiently. While tests are being conducted this room shall be maintained at a temperature of 78 to 82°F. It is suggested that relative humidity be held between 30 and 50 per cent.

*E—Spray Chamber.* The spray chamber shall be a box-like structure of solid material measuring 18 inches wide, 18 inches long and 25 to 30 inches in height. The floor of the chamber shall be covered with ½ inch mesh wire hardware cloth. Suitable guides shall be fastened to the chamber floor to permit the centering of the treatment container directly beneath the nozzle of the spray gun. The top of the chamber shall be open and fitted with suitable braces and mounting for the spray atomizer. The front wall of the chamber may be in the form of a sliding door permitting convenient access to the interior of the chamber. The chamber shall rest on a stand placing it at the proper height for convenient operation of the test.

*F—Atomizer.* The atomizer to be employed is the DeVilbiss Special No. 5004, which is the same atomizer specified for the Peet-Grady Test. This atom-

izer shall be operated with air free of oil, dust particles, or condensed moisture, and maintained at a constant pressure of 6.0 plus or minus 0.5 lbs. per sq. in. The atomizer when operated at a pressure of 12.5 plus or minus 0.5 lbs. per sq. in. shall deliver 12 ml. of OTI in 24 seconds (tolerance plus or minus 1 second) and this should be checked frequently. The atomizer shall be firmly mounted in a manner to permit adjustment and shall be arranged with the barrel in a vertical position and centered with the nozzle tip 28 inches above the bottom of the treatment container which rests on the chamber floor. The intake tube of the atomizer shall be bent at a right angle, adjusted with the open end pointing toward the floor and of sufficient length to permit the spray vials to be held in place without interfering with the spray cone.

*G—Treatment Container.* The treatment container shall be a screen bottomed container 3½ inches in diameter with 3 inch side walls. Sixteen mesh wire screen shall be soldered in place to form the bottom of the container in such a manner that the entire bottom is completely open. Ordinary tin cups of the proper dimensions with handles removed and the solid bottoms replaced by wire screening have been found useful as test containers.

*H—Recovery Dishes.* Glass crystallizing dishes measuring 125 millimeters in diameter and 65 millimeters high shall be employed as recovery cages. The bottoms of the recovery dishes shall not be covered with filter paper or other material. Sixteen mesh wire screen covers may be employed as recovery dish covers during the 48-hour holding period following spray application in order to prevent the entry of wild cockroaches.

## III. PROCEDURE

*A—Rearing of Test Insects.* Any suitable method permitting the production of large numbers of the test insect under controlled conditions of temperature and humidity as previously described may be employed. The rearing technique described by Woodbury and Barnhart<sup>2</sup>, which makes use of a brood chamber containing adult females from which large numbers of first instar nymphs may be collected at frequent intervals, has been successfully used in a number of laboratories. All molded food, dead females and empty egg cases



should be removed weekly. Wild cockroaches shall not be used and all test insects shall have been reared under uniform conditions.

**B—Food.** Until the time of testing, the cockroaches shall be provided at all times with food and water. The standard food shall be Dog Chow Checkers, manufactured by the Ralston Purina Co., St. Louis, Missouri, or equivalent.

**C—Test Procedure.** Adult male cockroaches shall be isolated in recovery dishes or other suitable containers from the cultures in groups of 20 by means of a suction device, by anesthetizing them with carbon dioxide gas or any other suitable method which does not injure them. In selecting the test insects every effort shall be made to obtain uniform test groups.

Air shall pass continuously through the atomizer at the prescribed pressure during the entire series of tests. Prior to application of test samples, the gun shall be thoroughly cleaned with a suitable solvent such as acetone and shall be primed with the spray solution to be applied. Spraying of individual test groups shall be effected by bringing an accurately measured amount of the test spray contained in a vial in contact with the atomizer intake tube.

Immediately before spray application the cockroaches shall be transferred to screen-bottomed treatment containers. These containers shall be free from all traces of insecticides and shall have the entire inner wall surface suitably oiled or greased to prevent the escape of the insects and to confine them to the container floor. The treatment container shall be centered on the spray chamber floor directly below the atomizer nozzle and the spray applied as described above. Prior to spray application the treatment container shall be agitated sufficiently to distribute the test insects uniformly over the container floor. The treatment container shall be removed from the spray chamber 30 seconds after the start of spray application. The test insect shall be immediately transferred from the treatment container to the recovery dish. Treated cockroaches shall be held under rearing room conditions throughout the 48 hour observation period and shall receive neither food nor water.

In evaluating a test sample a minimum of 10 individual test groups shall be run for the test spray in conjunction with 10 test groups receiving the OTI. An equal number of replicates shall be made for members of any given test series on a given test day. The dosage employed shall be the same throughout a given series of tests and of such magnitude as to result in an average of 70 per cent to 90 per cent of the insects dead and moribund at 48 hours with the OTI. Cooperative tests among CSMA laboratories have shown the required dosage to be 0.5 to 0.9 ml.

**D—Assembly and Evaluation of Data.** Evaluation of test samples shall

be made on the basis of observations taken 48 hours after spray application, at which time the percentage of test insects normal, moribund, and dead shall be determined. Any insect showing signs of life but incapable of locomotion shall be considered as moribund. Similar records taken at 24 hours or at intervals longer than 48 hours may be of interest in critical studies. It is recommended that if the test insects are to be held under observation longer than 48 hours they be furnished food and water at the end of the initial 48 hour observation period. Insects that withstand insecticide treatments shall be destroyed and in no case returned to the stock cultures or employed in further tests. In cases of semi-concentrate sprays or sprays of especially high toxicity to cockroaches they shall be tested by the above method as recommended by the manufacturer. For example, if a manufacturer claims his product to be three times as effective as the standard (OTI), the spray shall be diluted at the rate of one part of the spray with two parts deodorized insecticide base oil by volume prior to testing. The basis of comparison shall be the average percentage dead and moribund of the test sample as compared with that of the OTI. In reporting the test results the test sample shall be reported as "meeting the standard" if its average percentage dead and moribund determination at 48 hours is equal to, greater than, or within 5 percentage points less than that of the OTI employed in conjunction with it. In no case shall actual numerical values be reported officially or any letter grade designations be assigned to the test samples as a measurement of their effectiveness against cockroaches. The accompanying table records the results of a typical series.

#### IV. CONDITIONS FOR OFFICIAL EVALUATION

**A—**The test shall be conducted in accordance with the procedure previously described.

**B—**Twenty test groups of insects, numbering 20 cockroaches each (10 test sample, 10 OTI) shall be employed in making official evaluation.

**C—**The dosage shall be constant throughout a given series of tests and of such magnitude as to give an average of from 70 to 90 per cent of the OTI treated cockroaches dead and moribund 48 hours after spray application.

**D—**The toxicity of the unknown sample shall be reported as meeting the standard if its average percentage dead and moribund determination at 48 hours is equal to, greater than, or within 5 percentage points less than that of the OTI run in conjunction with it. In cases of semi-concentrate sprays or sprays of especially high toxicity to cockroaches, they shall be tested as recommended by the manufacturer. In no case shall numerical values be reported or any letter grade designations be assigned to the test samples as a measurement of their toxicity to cockroaches.

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#### EXAMPLE OF TEST DATA

0.7 ml. Dosage by CSMA Roach Test Method

Per Cent Dead and Moribund 48 Hours

Test	Date	OTI	Spray A	Spray B	Spray C
1	5/13/46	90	85	100	100
2	5/13/46	85	75	45	90
3	5/13/46	30	50	55	100
4	5/13/46	65	70	40	100
5	5/13/46	100	85	65	100
6	5/13/46	75	75	85	95
7	5/16/46	80	85	35	100
8	5/16/46	65	70	65	100
9	5/16/46	95	90	30	95
10	5/16/46	80	45	60	100
Average		76.5	73.0	58.0	98.0

Reported as follows: Spray A—Meets Standard; Spray B—Does not meet Standard; Spray C—Meets Standard.



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## FEDERAL SPECIFICATIONS

(From Page 248)

free from corrosion or discoloration for a period of at least 24 hours.

Polish, metal, furnished under this specification shall have good keeping qualities and be guaranteed for 1 year from the date of actual receipt at point of delivery specified in the contract or order.

The amount of volatile matter, at 105° to 107°C., in either type II or III polish, shall not exceed 70 per cent by weight, of the polish.

The flammability of the liquid contents of types II and III polishes shall be not less than 39°C.

### Rodenticide, Warfarin, Concentrates O-R-507a

Rodenticide covered by this specification is suitable for the control of commensal rats and mice. It shall be of the following classes: Class I.—Rodenticide, warfarin 0.5 percent; Class II.—Rodenticide, warfarin 4.0 percent.

The rodenticide shall contain only the materials specified.

The finished rodenticide shall be a fine, free-flowing powder devoid of lumps. It shall be of such fineness that not less than 95 percent shall pass through a 100-mesh U. S. Standard screen (dry test).

The composition of the finished rodenticide shall conform to the requirements shown in the table.

COMPOSITION: O-R-507a

<i>Ingredient</i>	<i>Class I Percent</i>	<i>Class II Percent</i>
Warfarin .....	0.50-0.55	4.0-4.4
Pigment .....	0.90-1.10	0.90-1.10
Cornstarch ....	Remainder	Remainder.

The active ingredient of rodenticide warfarin concentrates shall be technical grade 3-(alpha-acetylbenzyl)-4-hydroxy coumarin, hereinafter referred to as warfarin. This technical product shall be a fine, white or creamy white powder, melting at 159°-163° C., and containing not less than 98 percent warfarin. It shall be free of objectionable odor or taste which might limit its suitability for the proposed end use.

Rodenticide warfarin class I shall contain not less than 0.5 percent nor more than 0.55 percent warfarin, and rodenticide warfarin class II shall contain not less than 4.0 percent nor more than 4.4 percent warfarin.

The pigment shall be a Nile green color, adequate for its proposed end use, and approved by the U. S. Department of the Interior, Fish and Wildlife Service.

The cornstarch shall conform to the requirements of the Pharmacopoeia of the United States. Percentage starch content shall be determined.

The finished rodenticide powder

shall not lose more than 11.0 percent of its weight when tested.

The toxicity and acceptability of the finished rodenticide powder shall be such that it yields a test score of not less than 80 when assayed as described.

The method employed in making the rodenticide powder shall be in accordance with best commercial practice. The product shall be clean, uniformly blended, and free of defects which may impair its utility.

## AEROSOL TESTING METHOD FOR FLYING INSECTS

(From Page 254)

the 15-minute exposure period. The dead flies are counted 24 ± 1 hours later, preferably by removing them from the recovery cage. Only flies that show no sign of life upon being touched may be counted as dead. If the "down" flies were counted as they were collected, the sum of the "down" and the "up" flies yield the total flies in the test. If the "down" flies were not counted as collected, the recovered flies are killed by placing the cage in an oven at 170°F. for a few minutes, after which they are counted. The sum of recovered and dead flies yields the "down" flies and this sum added to the "up" flies yields the total flies used in the test. The *Aerosol Test Knockdown Mortality* is the per cent dead of total flies. In the *Aerosol Test Knockdown Mortality* calculation, the "up" flies at the end of the 15-minute exposure period are considered to be alive at the end of the 24-hour observation period. The *Aerosol Test Knockdowns* are the per cent "down" of total flies at 5, 10 and 15 minutes.

In the preceding paragraph, it is assumed that the "up" flies at 15 minutes are counted and discarded, and not captured and held for a 24-hour mortality observation. If these flies are captured, the *Aerosol Test Mortality* calculation can be made, and this includes the 24-hour dead of the "up" flies. In such a procedure, the captured flies must be held in a separate recovery cage under conditions specified for the "down" flies, and the 24-hour mortality count must be taken in a similar manner. It is also necessary that the OTA, run in conjunction with the so-treated experimental samples, receive identical treatment. In reporting results, the above terminology must be rigidly adhered to in order to clearly designate whether the "up" flies were captured and held for observation or whether they were assumed to be alive at 24 hours.

The mortality and knockdown definitions are summarized in equation form as follows:

$$(1) \text{ Aerosol Test Knockdown Mortality} = \frac{\text{Dead "Down" Flies} \times 100}{\text{Total Flies}}$$

$$(2) \text{ Aerosol Test Mortality} = \frac{(\text{Dead "Down" Flies}) + (\text{Dead "Up" Flies} \times 100)}{\text{Total Flies}}$$

$$(3) \text{ Aerosol Test Knockdown, 5, 10 or 15 minutes} = \frac{\text{"Down" Flies} \times 100}{\text{Total Flies}}$$

## IV. CONDITIONS FOR OFFICIAL EVALUATION.

1. The tests shall be conducted in accordance with the procedure previously described.

2. At least two cultures of flies, meeting Peet-Grady specifications, shall be used in making an official evaluation.

3. Cages showing a combined mortality and crippling greater than eight per cent on the day of test shall not be used.

4. In the small group procedure, using approximately 100 flies per test, no more than three unknown samples may be tested in conjunction with one OTA in any one series. Ten tests are run on the OTA and on each of the unknowns in parallel; that is, test each spray the same number of times on any one day. The samples of a series must be randomized in the order of testing.

5. The large group procedure using approximately 500 flies per test shall be conducted in the same manner as outlined for the small group procedure with the exception that five, rather than ten, tests are required.

6. The *Aerosol Test Knockdown Mortality* and/or *Aerosol Test Mortality*, and *Aerosol Test Knockdown* (5, 10, and 15 minutes) of the unknown sample shall be reported as "meeting the standard" if its average mortality and knockdown is equal to or greater than that of the OTA run in conjunction with it. "Equal to" shall be interpreted as meaning that the results with the unknown do not differ by more than 5 percentage points from the results obtained with the OTA at 5, 10, and 15 minutes. If an unknown sample shows a mortality or knockdown less than the OTA but within the allowable 5 percentage point margin, the average dosage of the unknown must not exceed that of the OTA.

7. In no case shall numerical values be reported or any letter grade designations be assigned to the test samples as a measurement of the mortality or knockdown.

8. The *Official Test Aerosol* (OTA) is restricted to use in the above described procedure and shall be used only as a reference insecticide in house fly aerosol testing.

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#### THE PEET-GRADY METHOD

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3. Cages showing a combined mortality and crippling greater than 8 per cent on the day of test shall not be used.
4. An unknown insecticide to be officially rated shall have a knockdown percentage equal to that of the OTI with a tolerance of minus 2.
5. The kill by the OTI shall fall between 30 and 55 per cent in all tests. The toxicity of an unknown spray shall be reported by a grade letter, obtained by subtracting the average kill by the OTI from the average kill by the unknown spray and comparing this result with the following figures:

Grade Letter	Kill Difference
AA	: +16 or greater
A	: +6 to +15
B	: +5 to -5

6. In the small group procedure no more than 2 unknown samples may be tested in conjunction with one OTI in any one series. Ten tests are run on the OTI and on each of the unknowns in parallel; that is, test each spray the same number of times on flies of the same culture and test all sprays the same number of times on any one day. The samples of a series must be randomized in the order of testing.

For example, number the samples and the OTI, and test them in the order 1, 2, 3; 2, 1, 3; 3, 2, 1, etc., until each has been tested ten times. After the mortality data are obtained, calculate the average kills and determine the difference between that of the unknowns and that of the OTI. In order for these differences to be valid, the standard error of the mean difference between the average OTI kill and the average unknown kill must be less than 3. If it is 3 or greater, the test results were too variable and to make the results valid, additional paired tests must be run to reduce the figure to a value less than 3. The example in Table I illustrates the arrangement of test data and calculations described in the preceding paragraphs. When two unknown samples and the OTI are tested in series, the first table should consist of differences between Sample No. 1 and the OTI, the second table should show differences between Sam-

ple 2 and the OTI. 1.14 is less than 3, thus indicating the test has been properly conducted. The letter n (in formula above) denotes the number of paired tests. This number is always 10 except when it is necessary to run additional tests to reduce the standard error of the mean difference to 3 or less.

The percentage kill of Sample 1 minus the percentage kill of OTI is +4; therefore, Sample 1 is a "B" grade insecticide.

7. In the Large Group procedure the evaluation is carried out as follows:

The evaluation is based on the difference in mortality of the OTI and the unknown as determined by a minimum of 4 tests. The order of testing shall be random and replicated OTI tests on any culture shall agree within 10 points. Table II illustrates one arrangement of testing, the computation of the test results, and the grading of the sprays.

TABLE I. Small Group Method

Pair	Culture	Date	% Dead		Difference <sup>1</sup>	Deviation	
			Sample 1	OTI		Deviation <sup>2</sup>	Squared
1	C	3-8	58	50	+8	+4	16
2	C	8	62	55	+7	+3	9
3	C	8	60	54	+6	+2	4
4	C	8	52	52	+0	-4	16
5	C	8	49	46	+3	-1	1
6	E	9	61	54	+7	+3	9
7	E	9	46	49	-3	-7	49
8	E	9	53	51	+2	-2	4
9	E	9	57	54	+3	-1	1
10	E	9	53	46	+7	+3	9
			55.1M	51.1M	+4 MD	0	118 Sum d <sup>2</sup>

<sup>1</sup>Sample 1 kill minus OTI kill.

<sup>2</sup>Deviation from the mean difference (MD).

The mean difference (MD) between Sample 1 kill and the OTI kill is 4.0.

$$\text{The standard error MD} = \frac{\sqrt{\frac{\text{Sum } d^2}{n-1}}}{\sqrt{n}} = \frac{\sqrt{\frac{118}{9}}}{\sqrt{10}} = 1.14$$

TABLE II. Large Group Method

CULTURE E Nov. 21			CULTURE F Nov. 23	
Cage No.	Sample	% Dead	Sample	% Dead
1	OTI	43	2	69
2	1	44	3	65
3	3	57	OTI	54
4	2	63	3	58
5	3	52	1	45
6	OTI	47	2	77
7	1	39	1	54
8	2	71	OTI	46
Sample	Mortalities	Average	Rating	Grade
OTI	43, 47, 54, 46	47.5		
1	44, 39, 45, 54	45.5	- 2.0	B
2	63, 71, 69, 77	70.0	+22.5	AA
3	57, 52, 65, 58	58.0	+10.5	A

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